

SIXTY-FIFTH ANNUAL REPORT
of the BOARD OF TRUSTEES *of the*
OHIO STATE UNIVERSITY
TO THE GOVERNOR OF OHIO

FOR THE YEAR ENDING
JUNE 30, 1935

MCMXXXV
THE OHIO STATE UNIVERSITY
COLUMBUS, OHIO

THE OHIO STATE UNIVERSITY

HONORABLE MARTIN L. DAVEY,
Governor of Ohio,
Columbus, Ohio.

MY DEAR SIR:

I have the honor to present to you the annual report of the Board of Trustees of the Ohio State University for the year ending June 30, 1935, as required by law.

Yours very truly,

NEWTON D. BAKER,
Chairman Board of Trustees.

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ANNUAL REPORT OF THE PRESIDENT

HONORABLE NEWTON D. BAKER

Chairman of the Board of Trustees

The Ohio State University

DEAR SIR:

I have the honor to present through you to the Board of Trustees of The Ohio State University for transmission to the Governor of Ohio, as required by law, the Sixty-fifth Annual Report of The Ohio State University for the year ending June 30, 1935.

NECROLOGY

During the year the University suffered great losses through the death of members of the teaching staff. Appropriate memorials were prepared by a faculty committee in each case and were received by the faculty and made a part of its permanent records; only a brief notice will be given at this point. I record with sorrow the following deaths:

Of Professor Charles L. Arnold on November 8, 1934; Professor Arnold was a graduate of the university in 1890 and spent his whole life thereafter in the teaching of Mathematics in this institution. He was not only a capable mathematician, but he was particularly known for his interest in the individual student and in the bringing together of kindred spirits in the Mathematical Society which he organized and promoted for many years among the students of Mathematics. Outside of his particular teaching field he was also interested in university affairs generally through all the years.

Of Professor Arthur H. Noyes, on December 3, 1934, who was a professor of History and in the last few years especially charged with the supervision of the teaching of the elementary courses in History. His own peculiar field of historical study and teaching was that of Medieval English History in which he prosecuted extensive studies.

Of Professor Wallace S. Elden, on January 13, 1935; he was, in the early nineties, a teacher of French and Latin in this university, and then, after a few years of absence at the University of Michigan, he returned as a professor of Latin and continued in that capacity until the time of his death. He was interested deeply not only in the teaching which he carried on with great success, but in the extensive study of the Latin language and its sources, and participated enthusiastically in various language associations where he was always well received.

Of Professor William T. Magruder, on June 21st, 1935; he had been for forty years in the Department of Mechanical Engineering and until the last few years of his life the chairman of that department. He not only witnessed, but was one of the prime promoters of, the great growth of the university from the middle nineties to the nineteen-thirties and made large contributions in his teaching, in his management of the department, in his extensive engineering studies and practice and in his interest in professional engineering societies.

Of Professor Joseph V. Denney, on the 19th of June, 1935, after a service of forty-four years in the university in the Department of English. For many years he was the chairman of that department and for a long period was also the Dean of the College of Arts. For many years also he was the secretary of the university faculty. His interests in the university were very wide, including the teaching of English literature and the History of the English language, participation in general university matters and in learned and professional societies outside—the university, in all its aspects, dominating his life and being the focus of his activity.

Of Professor Jesse E. Day of the Department of Chemistry, on April 19, 1935; he was a well-known teacher of Chemistry, and in the last few years had carried the heavy responsibility of organizing and directing the teaching of freshmen in this subject. From fifteen to eighteen hundred students take up the subject of Chemistry in the freshman year, and the organization of the work, the supervision of the teaching and laboratory activity, and the administrative attention needed to carry this multitude of students in a stimulating and progressive fashion through this first year of work, all call for a high order of administrative ability and a very deep interest in the individual student. Professor Day gave clear evidence of the various kinds of ability needed to carry on this work, which for so many years had been under the direct charge of Professor William Lloyd Evans, who in his administration of this area had made a record of which the university was proud and which could be equalled only by the highest type of work. After Professor Evans became chairman of the Department of Chemistry he was highly pleased with and very enthusiastic about the record that Professor Day was making in his management of this freshman area. His death was most untimely, occurring as it did when normally years of notable service would be ahead of him.

Of William A. P. Graham, Associate Professor of Geology, on August 11, 1934, after a short illness in a western geological expedition which would have engaged his summer quarter. He had been at the university only six years, having become a member of the faculty of the Department of Geology after the death of Professor John A. Bownocker. He was a comparatively young man, of great promise in the field of economic geology, and his death came as a severe shock to the university community.

Of A. H. Vilbrandt, instructor in Chemical Engineering, on June 13, 1935. Mr. Vilbrandt had been in the department for a number of years, was a very faithful and capable instructor, and was the chief assistant of the chairman of the department in the laboratory work and in the conduct of departmental activities. His sudden death deeply stirred the sympathy of the university community.

GIFTS TO THE UNIVERSITY

Gifts were made during the year to the amount of \$75,000. The complete list appears tabulated in the Financial Report of the University for the year ending June 30, 1935, on page 11. These gifts took a wide range, including scholarships, student loan funds, particular pieces of technical equipment, research projects of many kinds, lectures, and purchases of books for the Library. These gifts came from individuals, from corporations, from firms, from foundations, from class groups, from sororities and others, the list serving as a good illustration of the wide spread of interest in the university enterprise. Such gifts have been given to the university in greater or less volume

for a number of years and are always cordially accepted and scrupulously devoted to the purpose expressed by the giver.

This is an appropriate place for extending the university's commendation to Mr. Carl E. Steeb, the Business Manager, and his able assistant, Mr. Charles A. Kuntz, the Comptroller, for the scope, the completeness, and the clarity of the annual financial report. This report always appears a few days after the end of the fiscal year, June 30th, and invites careful and illuminating study by its arrangement, its analysis of the various financial areas in the university, its accumulation of historical data having a financial bearing, altogether presenting in compendious form just such information as an inquirer in the state government or in a fellow educational institution would be seeking. The analysis of financial transactions is approached from a number of viewpoints and is of the greatest interest.

It may be here recorded also that on page 7 of the financial report for 1935 it is shown that the value of the educational plant of the university now runs to almost twenty-three millions of dollars; endowment funds for general purposes are just short of a million dollars, while the endowment for particular purposes specified by the donor is somewhat more than two hundred thousand dollars. This recital goes to show the vast confidence of the people of Ohio in the institution and indubitably indicates the responsibility resting upon the institution in the higher educational areas. It is a great pleasure to recommend the annual financial report to those interested in the multiform ways in which the university of today is expected to serve the life of a great commonwealth.

RELATION OF SECONDARY SCHOOL AND COLLEGE

The colleges have long held definite conceptions of what should be offered in the educational scheme to freshmen and they have imposed these conceptions without, for the most part, adequately appreciating the functions and accomplishments of the secondary schools. At times there has been rather harsh feeling on the part of university faculty members towards the preparation accorded by the secondary schools to incoming freshmen, and this feeling has been completely reciprocated on the part of the public school men with reference to the attitudes of the colleges. So mistrustful for many years were some of the largest of the universities of the United States of the virtue of the secondary school program, that all admissions to the freshman year were based upon the results of examinations, prescribed by the colleges individually or prescribed by them as a group or groups. Accordingly the great effort of the pupil in passing through the secondary school area, knowing that college was intended for him, was to pass these entrance examinations and the manner of administering them has undergone changes from time to time. In these latter years, however, almost all universities in the United States have been admitting directly from the secondary school system such students as were ranked scholastically in an upper small percentage of the entire class. It may be said generally that this is the system now in vogue in admitting secondary school graduates to freshman standing in the various colleges and universities of the country.

However, this arrangement does not settle all of the vital questions which have grown out of this general discussion, and recently one of the educational foundations has given liberal contribution towards a project designed to make a qualitative measurement of the secondary school curricula in terms of the growth thereunder educationally and socially of the pupil. This project is also

devoted to the reconstruction or reorganization or readaptation of the secondary school curricula to accomplish the intellectual progress which should be achieved by the pupil in carrying through a curriculum, with the contemplated result of thereby affecting secondary school procedures, particularly canceling out some of the rigid formalities which have on the whole marked such procedures. This project also will be aimed at bringing together a limited number of secondary schools, both public and private, where considerable freedom can be attained in the study and experimentation with their educational offerings, and a rather large number of colleges and universities in sympathy with this general project, to the end that the colleges will be willing to receive graduates from these selected secondary schools who in most cases would not be able to present the old rigid formal requirements of the universities in secondary school units. In other words, in these selected groups of educational institutions admission to freshman standing will follow upon the recommendation of the secondary school staff, based not upon formal and rigid periodically obtained units but upon the general estimate of the student's capacity and stage of advancement by the secondary school staff.

The project contemplates a further step, namely, that especially during the freshman year the abilities and aptitudes and progress of these selected students be carefully ascertained and fostered by the college. The procedures of the college shall be adapted to the individual in such manner as to enable him to make progress in accordance with the indications of his secondary school record and recommendations. Thus it is hoped, after a period of study and experimentation and many sympathetic conferences between the university and the secondary school, to bridge the gap hitherto so generally existing for the freshman and make a genuine effort to render the progress of the student continuously and sympathetically progressive, a desideratum to which all educators in theory respond but which in practice has been deplorably lacking. Every university or college and secondary school teacher at once realizes the problem involved and sympathizes with the effort now being genuinely made, in the entire interest of the pupil, to make his educational experience a continuous one.

This is the purpose of the project now being provided for in the Ohio State University. It will be under the general supervision of the Bureau of Educational Research in the College of Education, and the elaborate measurement features of the plan will be under the direction of Professor Ralph W. Tyler. The problem of the integration of the secondary school with the college, which may be expressed as a problem of educational relationships, will be carried forward by Professor Wilford M. Aikin who comes to the university from the John Burroughs School in Clayton, Missouri. Our own University School under the guidance of Director R. D. Lindquist and Dean George F. Arps of the College of Education is vitally concerned in bringing to pass this sympathetically effective understanding and relationship and will contribute everything in its power to make this program successful. Much work has been done in this matter during the current school year and it is expected that an adequate organization will be effected early in the coming year to carry forward this project with the best intelligence and with high enthusiasm. College and secondary school men recognize the desirability of a complete understanding in this area and promise to be very energetic in aiding to establish relationships which will inure to the benefit of the individual student.

Practically all of the expenses to be incurred in carrying forward this

project will be borne by an external educational agency and the university will provide the accommodations and facilities needed for carrying forward the study required. The outlook for an harmonious understanding in the interest of the individual student in this troubled area of transfer from the secondary school to the university was never so promising and this university looks forward with great enthusiasm to the efforts which will now be seriously made under its auspices to establish this better understanding. This university, therefore, will be making a contribution to the solution of these problems both on the secondary level and on the university level. We shall witness the most significant experiment on our own campus. It is very reassuring that the university in all its activities relies increasingly upon the experimental approach.

DORMITORIES FOR MEN

Last year the university found it possible to extend aid to needy men students by making alterations in the south-west tower of the stadium and equipping it for dormitory purposes. The report last year described these arrangements to render possible the attendance of the student of slight means at limited expense, and in these times of depression that privilege proved to be a great boon.

This year additional dormitory accommodations have been provided in the adjacent portion of the stadium so that now 185 men students find their entire living accommodations there. This is not only an economical utilization of the stadium structure, but it also has the greatest social significance; it is deeply appreciated by the people of Ohio. Many more applications were made for assignments to the stadium dormitory than could be granted and it is our earnest hope that in the coming year the university may be enabled to give large extension to these dormitory facilities. It is evident that many students would avail themselves of these advantages if they could be provided.

Because of the many applications and the inability of the university to make further expansion in the stadium dormitory facilities at the present time, the great locker room in the Physical Education Building was cleared out and turned into a men's dormitory. Here living accommodations are provided and a pleasing environment is furnished for the homes of over one hundred boys. They find all their living facilities in this building with the exception of meals, which are provided under arrangements with the Ohio Union. The purpose of the Union is to provide these meals as nearly as possible at cost.

The result of this dormitory planning on the part of the university in this two-year period is to provide comfortable and very attractive housing for about 285 men students with practically no cost for quarters and service, the only notable expense being that for meals, which are kept to a minimum in price. Through the year many members of the legislature, expressing their interest in the students from their home counties as well as in the general student body of the university, have visited these dormitories and have been entertained by the boys and have expressed themselves in the most enthusiastic terms concerning the university's social awareness and its fixed purpose of doing everything within its power to bring the university to the students. We hope in the coming year to make further extensions to these dormitory accommodations in the stadium structure; this plan apparently meets the enthusiastic approval of the parents of Ohio.

INDUSTRIAL RESEARCH

Since the opening of the university various departments have been engaged, as an avowed part of their proper program, in both pure and applied research; these departments have served the interest of particular industrial organizations in the state from time to time upon direct request from the industry, and have likewise added to the sum of scientific knowledge through pure research voluntarily undertaken. The people of the state in the end have become the beneficiaries of both types of research carried on here and research members of the university staff have given unstintingly of their time and intelligence to these projects, always of course within the limits imposed by the educational program of the university.

Twenty years ago, in response to the needs of industrial research, the state provided the Engineering Experiment Station; this has been operated in the interest of both pure research and such research as may be required by particular industrial requests, and through the Station the university has been able to give great extension to the service rendered to the industries of Ohio. Particular statutes of the state provide for the Station and specify the limits within which the industrial research service may be rendered. But in recent years the feeling has been growing that a much greater field for industrial research through university agencies existed than had yet been served through the Engineering Experiment Station and through the individual departments of the university. The thoughts of the alumni of the institution were solicited and a number of conferences were held in which progress toward a definite end was distinctly made. However, no concrete plan was formulated and in the summer of 1934 particular study was made of the industrial research service furnished by several neighboring state universities. The most complete plan and one that offered the greatest fertility of suggestion to the Ohio State University was found at Purdue University, where the officials were very cordial and extended the courtesy of several conferences to the Ohio State University representatives. The outcome of the study of the practices of neighboring state universities was a concrete plan which Mr. James F. Lincoln, president of the Lincoln Electric Company in Cleveland, Ohio, a graduate of the university and a student here thirty years ago, undertook to finance for two years.

Support, under all the conditions, had to come from outside the university, and enthusiastic steps were at once taken to secure a director of industrial research who might come into the university organization and carry forward the plan of expanding such service of the university to the industries of Ohio. Mr. Hurlbut S. Jacoby, a graduate of Cornell University with the degree of Civil Engineer whose experience in industry has been unusually diversified through the years, was selected as the director, and entered upon this field of university service January 1st, 1935, with his office in the Engineering Experiment Station building. In these few months he has extended his acquaintance through the university departments interested in industrial research, and has found a very friendly cooperative spirit everywhere. He has been following a carefully built program for establishing relationships with industry and acquainting industry more completely with the facilities of the university for various kinds of research. He is making progress not only in coordinating the research resources of the university, but in the extension of their usefulness to the people of Ohio. This is an expanding field of activity, the larger and more adequate development of which the university now endeavors through

the generous and understanding spirit of Mr. Lincoln to accomplish. It is understood that it will be the province of the university to continue the development of this activity after the expiration of the two-year period.

CHANGING MILITARY TRAINING

In accordance with changing methods of military defense and military preparations generally in the United States the War Department has ordered certain changes in the composition of the R.O.T.C., calling for fewer enrollments in the infantry training, and for larger enrollments in the artillery; it has also especially ordered the creation of an engineering division. The announced plan of the War Department calls for the practical disappearance of infantry in the R.O.T.C. and a new and stimulating emphasis upon artillery training and the training for engineering military services. Plans are entirely formulated and their execution is being effected as rapidly as possible.

It will be recalled that the R.O.T.C. is created and maintained and carried forward under the National Defense Act and the training in the various land-grant colleges is coordinated and directed by the War Department; in that manner military defense and military preparation in the United States, so far as they can be provided through land-grant college training, are controlled by a central body constantly actuated by such needs as they appear in the national picture.

So far as the individual student is concerned, the change in the type of training loses nothing in its progressive character and in its efficiency. It is believed that the War Department has a complete appreciation of the place and the function of the R.O.T.C. in the national defense plans and will do whatever the congressional grant of funds will permit in developing the R.O.T.C. to the highest standards of spirit and efficiency. The university has always given complete cooperation in this national plan, and the P.M.S.&T. and his staff in charge of the military training in the university have a sensitive understanding of the educational requirements resting upon each student, which they do not forget in imparting the military training which is a part of the land-grant college program.

It may be added that during the year the opposition to required military training in the university, which had been more freely expressing itself for a period of several years, reached a climax in an effort to control the military training through legislative enactment. At the legislative hearing before a Committee of the House, university authorities appeared to present the history and the practice of military training as carried on in the university so that the committee and the members of the legislature might have all the information possible about the conduct of this activity. Many persons and groups favoring or opposing required military training here were also heard by the committee, which freely gave to every person or group adequate opportunity for presenting his views. Finally after a complete hearing the committee refused to recommend legislative action; both houses of the legislature at the same time concurred in a resolution approving the manner in which the university had all along been conducting the military training.

Groups opposed to required military training in the land-grant colleges have also on several recent occasions unsuccessfully attempted to secure repressive action from Congress. Thus, the course of the university in the past has been given approval legislatively and the continuance, both by the federal and

state governments, of military training for the future seems to be conclusively indicated.

FEDERAL AID FOR STUDENTS

As a part of the plans of the federal government for relief and for the creation of employment the federal authorities gave careful study to the great group of young people who had completed the secondary school work, but for financial reasons were unable to attend a college or university. In many cases they had already been in attendance but were unable to continue. These are potential citizens for whose continuous development into a trained adulthood the government now began to assume great responsibility. The plan finally worked out was to ask the higher educational institutions to make work available for these students without depriving anyone already at work of his employment, such work to be found possibly in libraries, in laboratories, in administrative offices, in the assistance of members of the department staff, in research, and in all the many other ways in which colleges and universities are constructively busy.

Certain general regulations were worked out by the federal government and passed on to the colleges and universities in accordance with which the young men and young women students might be put to work at an average income of \$15 each per month, but with a limitation of \$20 as a maximum, since the business of education was to be still regarded as the chief purpose of the student's being in the institution. Under these regulations 1120 students were selected at the Ohio State University and assigned to various types of work such as those mentioned above, earning a total amount which averaged \$16,800 per month through the year. Over the country there was heard a chorus of approval of the federal government plan in this respect, with only a few dissenting voices among the educational institutions. It was a great boon to many worthy young men and women who found no employment opportunities and who were thereby permitted to continue their educational training with great relief to the family purse, which in numerous cases had become very thin.

Careful and prolonged consideration was given by the authorities of the Ohio State University to the program entailed by the federal aid program, or what was abbreviated to read the F.E.R.A., the Federal Emergency Relief Administration. A committee was selected of administrative and faculty members to make selection from among the students for these various work positions and another similarly constituted committee studied with the departments the possibilities of providing projects upon which students might become busy. A coordinating group kept these two committees aware of the activities of each other and made further plans and gave assistance. It was really a herculean task which these committees faced, but they did the work enthusiastically and devotedly, with a sincerity and impartiality which were notable, and through the year the allowable quota of young men and young women was kept at work under this federal aid plan. The Business Office of the university undertook a great additional load in this connection, formulating and handling the accounting system and a variety of regulatory devices to spend this money to the satisfaction of the government supervisors. The greatest cordiality prevailed between the university authorities and the federal government agents and the work went on through the year to the satisfaction of all parties concerned. At the end of the year the government agents were conferring with

the higher educational authorities about the possibility and the advisability of continuing some system of federal aid through the next year.

This reads like a strange story in the United States, but it is an evidence of the solicitude of the American people through its government to encourage the development and to build the morale of the adolescents so that they may not at this early stage be overcome with hopelessness and acquire a conception of the futility of the social order, thereby causing multitudes of them to degenerate into the burdens of society rather than its promoters. A great social concept is here involved and the nation was spurred by the situation in which these young people found themselves without fault of their own, and was agitated with a determination to go to any financial lengths in a time of crisis, and with reliance upon the thought that the whole general condition was an emergency one out of which the country would soon work its way. The whole program of federal relief for adolescents by enabling them to go forward with their collegiate education met an enthusiastic response.

In connection with this movement of the federal government to aid students there should be mentioned the aid extended by the federal government in developing and carrying forward what might be called civil works under the C.W.A., and public works under the P.W.A., the purpose of each being to furnish federal funds for the employment of many persons, temporarily unemployed, on work which had a civil or public importance. The Ohio State University, being an institution of the public, both of the state and of the nation, was, along with many municipal, county, state and other institutions, asked to present a program of needed work of a physical nature on the campus. Such work might be found in landscaping, in building walks, in cleaning buildings, painting buildings, in prosecuting repairs to buildings, making roads, providing sewers, and in numerous other ways. In practically all of these directions the Ohio State University had needs, and much federal money, supplemented by smaller amounts of university funds here and there, has been spent at the university during the year in effecting improvements of these kinds and in providing proper upkeep and maintenance for buildings. For instance, federal aid was provided in rather expensive alterations to the university power plant, and in the development of the stadium dormitory, and in the extension of one of the women's dormitories, Mack Hall. The university authorities were diligently cooperative with the purposes of the federal government and many minor improvements in grounds and buildings were made possible also; the physical plant was thus greatly improved by federal aid in a time when state resources could not be adequately mustered for such purposes.

FACULTY MEMBERS IN GOVERNMENT SERVICE

Part of the plan of the federal government during the depression was to enlist the capable, highly specialized, university professors in the service of the government in many types of work. Some of our own faculty were invited into the federal service in connection with the promotion of banking plans, in connection with agricultural projects, in connection with the administration of the National Industrial Relief Act, in connection with the great conservation movement sponsored by the federal government, and in other fields.

As the government's plans developed, leaves of absence were given to a considerable number of university staff members, both for the service of the state and of the federal government. This took from the campus some very able teachers on indefinite leave of absence to make a contribution to the

general public welfare which a publicly supported educational institution must always sensitively regard.

Meanwhile the substitute teaching in the university was done usually by persons of less experience and ability and a condition was gradually created which called for the return of the faculty members in the government service in the interests of the educational program of the institution, or their permanent detachment from the university so that their places might be filled permanently by persons of the best quality available in the market. Reluctantly, therefore, the university found itself under the necessity of inviting its faculty members back out of the federal and state service and found that it had to fix a limit of time upon which such return could be expected. The university did this with no lack of appreciation for the governmental situation and had likewise due regard for the desire of certain outstanding faculty members for a round of constructive and exhilarating experience in these governmental movements, but in the last analysis its responsibility for its own educational program forced it to recall its absent members. Several, rather than return at the time, resigned from the university service, and in several cases an extension of leave of absence was granted under circumstances which were of singular importance.

It should be comforting to university Boards of Trustees and administrative officers to learn from this recent experience that most men and women who have made their way upward in the university teaching staff and are definitely fixed in its organization prefer the educational work to any other type of service, and are willing to depart for a time from the educational work merely for the sake of new contacts and new experiences which may contribute to their own ability and effectiveness in their particular teaching field. As an educational institution of higher learning, based upon government support, the Ohio State University could do no less than to respond sympathetically to the appeal of the government for some of its outstanding staff members, and by the same token, being responsible to the public for an educational program, it could do no less than to recall them after a reasonable period to the educational work, so that the needs of the public in this great field might be more adequately served. Our net feeling about this whole matter is that the university has sympathetically and well discharged the obligations resting upon it due to its public relations with national and state governments. Out of all these experiences doubtless there is growing, not only in the university but in the minds of the public generally, a quickened appreciation of the responsibility of educated persons for the proper conduct and maintenance of public affairs.

FINANCIAL CONDITIONS AT THE UNIVERSITY

Previous annual reports have presented the university's financial condition, and have made it clear that in these times the university has not been a favored child of the state. Along with all other state agencies the university has been forced to limit its staff and to curtail its offerings, and consequently to diminish greatly the value of the university as an educational institution. The program has had to undergo considerable shrinkage.

In recognition of the general conditions the university presented its biennium budget request to the Director of Finance last December in two parts, Operation and Maintenance being provided for in the first part, and Capital Improvements being set out in the second part. The university requested that the capital improvements program should be considered by the legislature and

the Governor only in case the financial condition of the state would again justify some resumption of a building program. However, it was necessary to present a somewhat expanded program for Operation and Maintenance in view both of rising enrollment and of the rigid and indeed drastic economies that were inescapable in the preceding years of the depression.

The legislature gave most thorough and intelligent consideration to the university's request, and the finance committees of the two houses visited the university and inspected grounds and buildings and operations, both on the business side and on the educational side, a number of times during the session and finally agreed upon an appropriation bill which accorded to the university a reasonable increase in maintenance and in operation, with the thought of enabling it to function in a more nearly adequate fashion. The legislature gave thought to the many requests for service made upon the university by the people of the state in various industries and activities, and to the continually rising requirement for direct educational training in a multitude of subjects and activities on the university campus. The university appropriation, amounting to \$7,155,600, was passed by both branches of the legislature with practically no dissent, and in due course went to the Governor of the state for his consideration.

On the 18th of June, the Governor announced sweeping vetoes in the appropriation proposed for the Ohio State University amounting to \$1,266,500; this would leave for the biennium \$5,889,100, exactly \$17,800 *less* than the university had had from the state for the preceding biennium. Low-water mark had been reached in the support of the university in the preceding biennium when the state found itself financially quite paralyzed and was forced to limit the university to the smallest appropriation for any biennium in the ten-year period just then closing.

The Governor stated that under the law, if he vetoed, he must veto entire items and therefore he had not affected directly the item for Personal Service, which was about 75 per cent of the entire university appropriation as fixed by the legislature. But in order to accomplish the reduction he had in mind, he vetoed many other items of prime necessity for university operation, with the thought that the Board of Control would transfer to these vetoed items from the Personal Service appropriation. However, the Supreme Court held that such transfers could not be made, since, when vetoed, the items in question had ceased to exist. Consequently there was nothing to which to make a transfer. This was the situation on June 30th at which time the financial plans and budget arrangements for the university for the coming year were in complete suspense and hopelessly confused. Particularly did this uncertainty control university freedom of action and policy and left it unable to make any restoration whatever of salaries to the university staff, although all members of the staff receiving \$3000 or more had been given three drastic cuts, and for all members of the staff receiving below \$3000 there had been two drastic cuts, in the preceding three-year period. Hence no restorations were possible, notwithstanding the fact that the salary reductions of all other employees of the state had been completely restored on January 1st, 1935, by act of the legislature and with the Governor's approval. Consequently on the 30th of June, 1935, the university staff found its properly expected partial restoration of salaries blocked by gubernatorial veto, and in addition its total appropriation for Maintenance and Operation reduced by veto beyond the depth of depression figures.

In the closing days of June, the university, through the administration and the Board of Trustees, vigorously questioned the vetoes and emphasized anew the necessity for and the wisdom of the total appropriation voted by the legislature.

REPORTS BY THE COLLEGES AND DIVISIONS

The reports by the colleges, schools and divisions of the university are part of this general annual report hereinafter. They are presented somewhat more fully this year than for several years. It is very desirable to have a picture of the operation of the university in the times of stress covered by the last few years, and the materials for this picture will be found in the reports presented by the Deans and the Directors. Reference is here made to these reports for many very important facts relating to the university purposes and activities, and the manner in which it has been able to carry through during this time.

Most of these reports are abbreviated to come within the possible printing limit, and in the process of shrinking them perhaps some matters of importance have not been given the same space as others of no more importance. Indeed, it may be found that some matters of distinct interest have been omitted entirely, without intention to do so. The purpose has been, however, to present items relating to the progress of each college and division which have importance and which clearly indicate the trend of the thinking and accomplishment in these various educational fields. Acknowledgment of the indebtedness of the administration to the various deans, department chairmen and division directors and heads is hereby cordially made for the promptness and completeness with which the work has been done.

DEPRESSION YEARS

A word should be said about the disabling experiences the university has been undergoing in the last three years and particularly in the present year. In the repair, renovation and maintenance of the large physical plant, little could be done with the state appropriation; that sufficed merely to keep us going from day to day. The federal government, in its effort to provide a relief and employment program, made it possible to do a little building, considerable renovation and painting of buildings inside and out, and to make substantial improvements, for which the university records its due appreciation.

But such aid could not extend to the classroom and laboratory teaching service. It is very noticeable during the current year, and promises to be even more serious in the next year, that class sections have been growing in size, that teaching must be provided on the spur of the moment when the overflow of students is present. We have been unable to create a large enough teaching staff of chosen quality and tried experience to meet enrollment increases, especially of freshman students.

The university should offer experienced and sympathetic teaching to these boys and girls just entering upon collegiate work and collegiate requirements, and a few years ago we were enabled, through more adequate financial support, to provide more teachers of high quality, and to arrange for smaller class and laboratory sections; this plan enables the teacher to get close to the student and the maximum good can come therefore from the university training. We were all, university staff and parents alike, very happy in carrying forward these plans.

But "hard times" have seriously interfered in a number of departments, and with mounting enrollments each quarter has presented an emergency in the elementary teaching, and we fill the gap with such teachers as are available. This is not proper educational treatment of young men and women; we know that and crave the opportunity of building the permanent teaching staff larger to meet such situations with tried teachers, experienced not only in teaching but in the methods and program of this university. Therefore, we sincerely hope that the legislature and the Governor may enable the university next year more adequately to provide sound training for the youth of Ohio.

The university has a single purpose and justification, and that is "to serve the people of Ohio." Our biennium budget of requests, submitted to the legislature and the Governor, includes nothing that does not directly contribute to that end. Whether we serve well or poorly, depends solely upon our support. An unbelievable amount of time and thought are spent upon this matter by the university administration in order to keep the program logical and essential.

ALUMNI COLLEGE

The Alumni College was conducted for the third year by members of the university teaching staff and the alumni in gratifying numbers and appreciative attitudes came back to participate. The university has found this gathering a very stimulating one, and is eager to expand and modify the program in responding to the manifest interest among the alumni.

The local committee brought high enthusiasm to the work of program making and publicity and already projected their thinking into the next year. A copy of the program is herewith recorded as one of the significant educational activities of the year.

Thursday, June 6

"Forces That Control the Public Mind"—Professor Peter H. Odegard
Pomerene Hall, 9:00-10:30 A.M.

"Dictatorship or Absolutism"—Professor Henry R. Spencer
Pomerene Hall, 10:30-12:00

"The Background of Labor Problems"—Professor Viva B. Boothe
Pomerene Hall, 1:30-3:00 P.M.

"The Changing American Scene"—Professor Carl Wittke
Pomerene Hall, 3:00-4:30 P.M.

"Through Literature to Life: Studies in Contemporary Poetry"—
Professor William L. Graves
Faculty Club, 9:00-10:30 A.M.

"Sculpture, Clay and the Portrait"—Professors Erwin F. Frey and
Hoyt L. Sherman
Chemistry Bldg., 10:30-12:00, Room 100

"New Bearings in American Literature"—Professor Harold R. Walley
Faculty Club, 1:30-3:00 P.M.

"Singing Children of Ohio"—Professor Cloea C. Thomas
Faculty Club, 3:00-4:30 P.M.

"Modern Medical Progress, a Cooperative University Venture"—
Dr. Charles A. Doan
Chemistry Bldg., 9:00-10:30 A.M., Room 100

"Some New Contributions to the Problem of Human and Animal Learning"
Professor Samuel Renshaw
Faculty Club, 10:30-12:00

"Why Certain Liquids Foam"—Professor Charles W. Foulk
Chemistry Bldg., 1:30-3:00 P.M., Room 100

"Recent Contributions to the Chemistry of the Human Body"—
 Professor John B. Brown
 Chemistry Bldg., 3:00-4:30 P.M., Room 100
 Tea, Faculty Club, 4:30-6:00 P. M.
 Hostesses, Alumnae Council

Friday, June 7

"Unemployment Insurance"—Professor E. L. Bowers
 Pomerene Hall, 9:00-10:30 A.M.
 "Dictatorship: Lessons for Democrats"—Professor Henry R. Spencer
 Pomerene Hall, 10:30-12:00
 "Present Day Labor Problems"—Professor Alma Herbst
 Pomerene Hall, 1:30-3:00 P.M.
 "New Deals for Old"—Professor Carl Wittke
 Pomerene Hall, 3:00-4:30 P.M.
 "Through Literature to Life: Studies in Contemporary Poetry"—
 Professor William L. Graves
 Faculty Club, 9:00-10:30 A.M.
 "Contemporary Developments in Architecture"—Professor C. St. J. Chubb
 Chemistry Bldg., 10:30-12:00, Room 100
 "New Bearings in American Literature"—Professor Harold R. Walley
 Faculty Club, 1:30-3:00 P.M.
 "The Band: From the Village Bandstand to Concert Hall"—
 Professor Eugene J. Wiegel
 Men's Gymnasium, 3:00-4:30 P.M.
 "The Modern Conquest of Disease"—Dr. Charles A. Doan
 Chemistry Bldg., 9:00-10:30 A.M., Room 100
 "The Child and the Learning Process"—Dr. Laura Zirbes
 Faculty Club, 10:30-12:00
 "Origin of the Prairies and Forests of the Ohio Valley"—
 Professor E. N. Transeau
 Chemistry Bldg., 1:30-3:00 P.M., Room 100
 "Chemical Requirements for Adequate Human Nutrition"—
 Professor John F. Lyman
 Chemistry Bldg., 3:00-4:30 P.M., Room 100
 Open House, Faculty Club, 8:00 P.M.
 "The American Way of Life: An Historical Interpretation"—
 Dr. Arthur M. Schlesinger, Harvard University

WRITINGS, ADDRESSES AND EXTRA-MURAL EDUCATIONAL ACTIVITIES OF
 MEMBERS OF THE UNIVERSITY FACULTY

Pertinent data have been accumulated, but the total of the significant material has been found too large for this volume. Next year the reports of the colleges may be omitted and ample space will thus be afforded for a collection and some appraisal of the noteworthy extra-curricular interests of the individual professor. These will not only show educational aptitudes and evangelistic enthusiasm on the part of faculty men and women, but will also complete the answer to the question sometimes asked—with a negative implication—"How does the professor spend his time?" The answer will be construed not as institutional vindication but as public information.

George W. Prigmore
 President.

GRADUATE SCHOOL

DEAN WILLIAM MCPHERSON

The following report contains a brief statement of the important events in the history of the Graduate School during the academic years 1933-34, 1934-35. Appended thereto is a statement of the publications and of the research work of the different departments and bureaus that have cooperated by furnishing the necessary information. Of necessity this report of the advanced and scholarly work of the university is given only in very brief outline; the full reports are on file in the office of the Graduate School and are available to anyone who cares to study them in detail.

REGISTRATION

The registration in the Graduate School during recent years has followed the general trend of registrations in practically all graduate schools. Naturally it has been affected by the times. In the early years of the depression many of the young men and young women of our country lost their positions and having added to their savings somewhat in the prosperous years and believing that the difficult times would be of short duration, they entered the graduate schools in great numbers. To this number were added many students recently graduated who had failed to secure positions. As a result of these conditions the registration in the Graduate School of our own university increased from 2444 in 1929-30, to 3404 in 1931-32. As their meager savings became exhausted, the students began to withdraw or failed to matriculate so that the registration decreased as rapidly as it had previously increased with the result that in 1933-34 the number of registrants was 2420—practically that of 1929-30, when the abnormal increase began. It is probable that we are back again to the normal registration and that we may now expect a slight increase from year to year as indeed is reflected in the registration during the last two years; thus the total registration for 1933-34 was 2420 and for 1934-35, 2537.

CHARACTER OF THE PERSONNEL OF THE GRADUATE STUDENT BODY

Naturally many different groups and occupations are represented in the graduate student body, the most important of which are listed in the following table:

	1933-34	1934-35
Graduate Assistants in The Ohio State University...	146	156
Assistants and above in The Ohio State University..	173	137
Instructors in Ohio Colleges.....	105	91
Instructors in colleges outside of Ohio.....	56	72
Teachers in elementary and secondary schools in Columbus	187	132

Teachers in elementary and secondary schools outside of Columbus.....	653	795
Principals in elementary and secondary schools.....	116	130
Superintendents of schools	92	88
Instructors in teachers colleges and normal schools...	7	17
Persons employed in state institutions (blind, deaf, State Dept. of Edu., Bur. of Juvenile Research, etc.)..	25	25
State and Federal Bureaus.....	23	19
Social Workers.....	0	78
Fellows and Scholars.....	53	61
Ministers	6	6
Miscellaneous positions	113	90
All others	665	640
Total.....	2420	2537

COLLEGES AND UNIVERSITIES REPRESENTED IN THE GRADUATE SCHOOL

The number of colleges and universities represented in the Graduate School by one or more graduates was 288 for the year 1933-34, and 287 for the year 1934-35. It is of special interest to note the extent to which our Graduate School is serving the graduates of Ohio colleges. The following table lists the number of graduates from each of these colleges registered in our Graduate School for each of the years 1933-34, 1934-35.

	1933-34	1934-35		1933-34	1934-35
Antioch College	9	7	Mt. Union College.....	25	29
Ashland College	9	19	Muskingum College	46	57
Baldwin-Wallace	10	15	Oberlin College	23	30
Bluffton College	32	40	Ohio University	116	119
Bowling Green College.....	42	36	Ohio Northern University.....	50	42
Capital University	30	37	Ohio State University.....	930	928
Case School of Applied Science..	7	8	Ohio Wesleyan University.....	104	100
Cedarville College	7	8	Otterbein College	45	64
Cincinnati Vet. College.....	1	1	Rio Grande College	29	20
Cleveland College	0	4	St. John's University.....	1	1
Defiance College	18	21	St. Ignatius College.....	1	0
Denison University	45	52	St. Marys of the Springs.....	4	8
Findlay College	7	6	University of Akron.....	8	13
Heidelberg University	24	21	University of Cincinnati.....	7	5
Hiram College	4	15	University of Dayton.....	4	3
John Carroll University.....	1	0	University of Toledo.....	12	12
Kent State College.....	38	40	Western College for Women...	4	5
Kenyon College	4	8	Western Reserve University....	25	21
Lake Erie College	1	2	Wilberforce College	20	12
Marietta College	29	32	Wilmington College	20	18
Mary Manse College.....	1	1	Wittenberg College	40	44
Miami University	49	55	College of Wooster.....	34	40
Mt. St. Joseph on the Ohio.....	0	2			
			TOTAL	1916	2001

It is of interest to note the number of students majoring in each of the departments of the university. The following table gives this information as

well as the number of degrees conferred upon students majoring in each of these departments.

DISTRIBUTION OF STUDENTS AMONG THE DIFFERENT DEPARTMENTS OF
THE UNIVERSITY

Department	Total Enrollment by Departments		Number of Degrees Granted in Each Department			
	1933-34	1934-35	1933-34		1934-35	
			Ph.D.	Masters	Ph.D.	Masters
Accounting	11	14	..	..	..	2
Agricultural Chemistry..	15	11	3	3	..	2
Agricultural Education..	21	17	..	2	..	2
Agricultural Engineering	0	1	..	1	..	..
Agronomy	11	8	3	1	1	..
Anatomy	8	10	..	2	..	..
Animal Husb.	3	2	..	2	..	..
Bacteriology	32	35	1	6	..	12
Botany	35	45	3	8	12	6
Business Org.	57	38	..	3	2	7
Ceramic Engr.	17	16	3	3	1	3
Chemical Engr.	26	23	6	9	3	9
Chemistry	130	123	14	18	24	10
Civil Engineering	11	3	..	3	..	1
Class. Langs.	29	25	2	6	..	3
Dairy Tech.	5	7	..	1	..	4
Economics	28	28	2	6	4	1
Education	634	699	11	117	5	110
Elec. Engr.	20	11	..	7	..	1
English	146	140	4	20	4	19
Fine Arts	43	44	..	10	..	10
Geography	9	10	..	1	..	2
Geology	11	10	1	..	..	..
German	17	13	..	4	3	2
History	162	163	4	28	4	45
Home Economics	37	34	..	6	..	6
Horticulture	12	17	1	7	3	3
Indus. Engr.	5	0	..	3	..	..
Mathematics	57	50	2	14	6	4
Mech. Engr.	8	7	..	4	..	6
Med. & Surg. Research..	2	2	..	1	..	..
Metallurgy	6	5	..	4	..	..
Mineralogy	4	4	1	..	..	1
Music	31	39	..	2	..	4
Pathology	1	0	..	1	..	..
Philosophy	9	11	..	..	2	1
Phonetics	13	12	..	..	..	2
Phys. Education	77	97	..	12	..	12
Physics	48	53	3	7	3	4
Physiological Chemistry.	14	10	1	7	1	3
Physiology	9	9	2	3	..	1
Political Science	26	24	1	5	..	5
Poultry Husb.	3	2	..	1	..	1
Psychology	105	100	2	25	12	23
Romance Langs.	53	47	1	7	2	3
Rural Economics	10	15	..	2	..	1
Social Adm.	26	80	1	7	..	7
Sociology	24	22	2	4	3	2
Veterinary Med.	8	5	..	4	..	1
Zoology and Entomology	81	88	8	14	8	19
Special students	270	308	..	..	..	..
Total.....	2420	2537	82	401	103	360

FELLOWSHIPS AND SCHOLARSHIPS

In addition to the University Fellowships and Scholarships and those endowed, a number of others have been financed by different associations and industrial corporations. These include the following:

The E. I. du Pont de Nemours and Co. Fellowship in Agronomy; the Dairy Industrial Research Fellowship in Dairy Technology; the Hoover Company Fellowship in Bacteriology; the National Aluminate Corporation Fellow-

ship in Chemistry; the Tobacco By-products and Chemical Corporation Fellowship in Veterinary Medicine; the Timken Steel and Tube Fellowship in Chemistry; the Ohio Public Health Association Fellowship in Social Administration; the Delco Appliance Corporation Fellowship in Mechanical Engineering; the Charles Taylor Sons Company Fellowship in Civil Engineering; the Dairy and Ice Cream Association Fellowship in Dairy Technology; the S. M. A. Corporation Fellowship in Bacteriology; a Research Scholarship in Chemistry financed by the National Research Council; the Edward Orton, Jr., Ceramic Foundation Fellowships in Ceramic Engineering; the M. R. Bissell Scholarship in Social Administration.

In addition to the above a number of fellows appointed by various organizations chose to carry on their graduate work in our Graduate School. These include the following:

The Charles A. Coffin Foundation Fellowships (2 in 1933-34); the China Foundation Fellowship; a National Research Council Fellowship; the Bennett Wood Green Traveling Fellowship of the University of Virginia; the Margaret G. Harder Pan-American Fellowship; the National Peiping University Fellowship; the Walter Ahlstrom's Fellowship for training engineers for the industries of Finland.

THE BATTELLE MEMORIAL INSTITUTE FELLOWSHIPS

Special mention should be made of the Battelle Memorial Institute Fellowships. This Institute, founded to carry on research work in the general field of Metallurgy and Fuels, is located near the university campus and has always worked in the closest cooperation with the allied departments of the University. The Institute maintains three fellowships, the holders of which pursue their advanced studies in the University and carry on their research work in the Institute. The opportunities offered are very unusual and the contributions made to our knowledge of the subjects of Metallurgy and Fuels by these fellows have been of great significance.

VISITING SCHOLARS

The Emergency Committee in Aid of Displaced German Scholars and the Rockefeller Institute through their generous appropriations made it possible to add to our staff during the academic year 1934-35 Mr. Arthur Salz, formerly professor of economics in Heidelberg University. Mr. Salz conducted seminars in the Departments of Economics and Political Science and added greatly to the spirit of the graduate work in these departments.

At various intervals during the biennium, 1933-35, a number of distinguished off-campus scholars visited the University and gave one or more lectures of special interest to our graduate student body. Among these were the following:

Wm. Morris Leiserson, professor of economics in Antioch college and chairman of the Federal Petroleum Labor Policy Board; Melchior Palyi, visiting professor at the University of Chicago; Mordecai Ezekiel, Economic Adviser to the Secretary of Agriculture; Irving Fisher, professor of political economy, Yale University; Paul H. Douglas, professor of economics, University of Chicago; H. Parker Willis, Professor of banking, Columbia University; Henry Hazlitt, Editor of American Mercury; George W. Stocking, member of Federal Petroleum Labor Policy Board; David Cushman Coyle, Consulting Engineer, New York City; Harold E. Palmer, Special Adviser to the Japanese Government; Max Carl Otto, professor of philosophy, University of Wisconsin; Linus Paulding, professor of chemistry, California Institute of Technology; G. Von Anrep, professor of physiology, Egyptian University at Cairo; Rudolph Schevill, professor of Spanish, University of California; Sir Herbert Ames,

formerly Treasurer of the League of Nations; A. Mendelssohn Bartholdy, lecturer at Oxford University; Lillian Gilbreth, noted authority in industrial engineering; Wolfgang Köhler, professor of psychology, University of Berlin.

RESEARCH INSTITUTES

The Plant Institute of the University has held regular meetings for the discussion of research work in progress and of topics of special importance in the field of plant life. Likewise the Animal Institute has carried out a program of lectures on the general subject of "The Effect of Light on Animal Life." The meetings of these Institutes are well attended and add much to the spirit of research work in the University. A Social Science Institute has also been formed and it is hoped that this organization will make possible cooperative research in the general field of the social sciences.

PUBLICATIONS

The Graduate School publishes each year three volumes of "Abstracts of Dissertations Presented by Candidates for the Degree of Doctor of Philosophy" and three volumes of "Abstracts of Theses Presented by Candidates for the Master's Degree."

The following monographs have also been published during the biennium period:

RALPH LAWRENCE DEWEY—*The Long and Short Haul Principle of Rate Regulation.*

RALPH LAWRENCE DEWEY AND HARVEY WALKER—*Telephone Utilities in Ohio: Rates and Financial Structure.*

FLOYD C. DOCKERAY—*Studies in Infant Behavior.*

THE PERKINS OBSERVATORY

Through the kind cooperation of the Board of Trustees of Ohio Wesleyan University and of The Ohio State University, arrangements have been made whereby the Perkins Observatory of the Ohio Wesleyan University is now made available to our graduate students in the field of astronomy. This arrangement is of such importance that I am adding here a statement made by Professor Alpheus Smith who contributed much to the success of the cooperative agreement.

The cooperative agreement by which the Perkins Observatory will be financed and administered jointly by the Ohio Wesleyan University and The Ohio State University marks an important advance in our opportunities and facilities for research. This observatory with its 69-inch reflecting telescope can now be made one of the outstanding centers for astronomical research in America. No other university except the University of Chicago and the University of Toronto is now provided with an equally large reflecting telescope. Since most of the present research work in astronomy demands the use of such a telescope it is obvious that the standing of The Ohio State University in the field of astronomy has been significantly improved by its participation in the scientific program of the Perkins Observatory. Just as the University of California is now so well known for the astronomical contributions of the Lick Observatory and the University of Chicago by the contributions from Yerkes Observatory, it will now be possible for The Ohio State University to be recognized for its contributions to astronomy through the Perkins Observatory.

This adventure in the field of astronomy is significant not only for the important advances in astronomy which can be made at the Perkins Observa-

tory but also because this observatory will become a center from which will radiate a growing interest in our knowledge of the physical universe. This interest will favorably influence the teaching of astronomy in the University and neighboring colleges and thus help preserve for this state the cultural possibilities of the study of astronomy. It is highly probable that instructors in astronomy in colleges in this state and neighboring states will avail themselves of the opportunities for research afforded by this observatory and come to it for limited periods of work. The popular interest in astronomy has long been recognized and the guest nights at the Observatory will still further stimulate this interest.

It seems, therefore, that the way has been opened for The Ohio State University to assume a position of real leadership in the field of astronomy not only in Ohio but in neighboring states. Before these possibilities can be realized, an outstanding director must be chosen, a competent staff must be selected, additional auxiliary equipment must be secured, and a scientific program characteristic of the observatory must be energetically undertaken. Several years will therefore elapse before the full meaning of this forward step in astronomy at The Ohio State University can be fully appraised."

THE SULLIVANT MEDAL

The Graduate Council plays an important part in the award of the Joseph Sullivant Medal of the University. This medal is made possible by a fund established by the late Thomas C. Mendenhall in honor of Joseph Sullivant, a distinguished member of the first Board of Trustees of the University. It is awarded once in five years or at periods of time approximating thereto, to a "son or daughter" of the University for an admittedly notable achievement. Two awards of the medal have been made previous to the present year; in 1924 it was awarded to the late Benjamin Lamme of the class of 1888 and in 1929 to Charles Franklin Kettering of the class of 1904. A third award was made at the June Commencement, 1935. The nominations made by the faculties of the University were reduced to three by the Graduate Council in accordance with the "Letter of Gift." These final nominations were then submitted to a Board of Award consisting of the following persons:

Louis T. More, Dean of the Graduate School of the University of Cincinnati; Wm. E. Wickenden, President of the Case School of Applied Science; and John C. Metcalf, Dean of the Graduate School of the University of Virginia.

The members of this board unanimously recommended that the medal be awarded to Arthur Meier Schlesinger of the class of 1910, at present Professor of History in Harvard University. In conformity with this recommendation the medal was awarded to Mr. Schlesinger at the June Commencement, 1935.

AN EVALUATION OF GRADUATE SCHOOLS

A Committee on Graduate Study was appointed by the Executive Committee of the American Council on Education and authorized to make a study of the graduate schools of our different universities and if possible to submit an evaluation of these schools. The report of this committee was published in April, 1934. Naturally it has been subject to much criticism; indeed, the committee itself states that "the report which follows is neither complete nor free from mistakes. It is, however, so far as it goes, a reliable guide as to the judgment of a large group of our leading scholars relative to American graduate work." In accordance with the report of the committee in a total of sixty universities listed, the Graduate School of The Ohio State University ranked eleventh in the number of departments recommended as thoroughly provided

with outstanding scholars and material equipment for giving graduate work, the number of departments so recommended being twenty-two. Of these departments four were starred as being especially outstanding in the field of graduate work. These in alphabetical order are as follows: Chemistry, Education, Entomology, Psychology. Two of the departments omitted from the list of those recommended by the Committee, namely, the Department of Bacteriology and the Department of Physiology, have recently been reorganized and outstanding scholars of international reputation have been placed in charge of them.

GENERAL STATEMENTS

It is entirely true that during the biennium the graduate work of the University has been carried on under difficulties due to increase in teaching load on the part of the staff and lack of funds for the purchase of scientific apparatus. Nevertheless, the members of the staff have shown a fine spirit under the stress, and the character of the graduate work has been maintained at a high standard. Certainly in no previous period in the history of the University has the research work been exceeded either in its character or quantity. Moreover, most of the departments have a well organized program of research and are looking to the future with enthusiasm and in the hope that time and material equipment will be available to carry out their programs in full.

The Graduate Council has held an average of three meetings each quarter. One meeting each quarter is held at the home of the Dean and gives an opportunity for social intercourse as well as the discussion of many questions arising in connection with the administration of the graduate work of the University. The members of the Council have shown great interest in all matters pertaining to the graduate work and have given unstintingly of their time in an effort to make our Graduate School a leading one among the universities of the country. The work of a number of the committees has required not only good judgment but an unusual amount of time. Especially is this true of the following:

Executive Committee (Hopkins, Smith, Wittke), the Committee on Scholarships and Fellowships (English, C. T. Morris, Walker); the Committee on Publications (Bode, Bowers, Hatcher); the Committee on Graduate Student Questionnaires (Charters, Eikenberry); the Committee on the Award of the Sullivant Medal (Dreese, Held, Titchener).

To the members of these Committees as well as to all the members of the Council, to the President, to the Deans of the Colleges who have cooperated so generously, and to all those who have at heart the welfare of the Graduate School and have assisted in promoting its best interests by maintaining high standards and improving the character of the research and scholarly work of the University, I wish to express my very great appreciation. It is only by the united efforts of the University as a whole that the Graduate School can continue its upward development.

COLLEGE OF AGRICULTURE

DEAN JOHN F. CUNNINGHAM

During the college year 1934-1935 the College of Agriculture has been compelled to carry on with shortened finances, in common with all other colleges of the University, but, we believe, with little diminution in the quality of the service. This has been possible only by reason of the fine spirit in which the faculty has met problems and situations that were unprecedented in the history of the University. Changes in staff have necessarily been few and enlargements of staff have been made only in such places as they were mandatory to meet the increased load of teaching, due to increased attendance of students.

The only additions to the staff, at or above the rank of instructor, have been: Instructors in the Department of Botany—Sherman S. Humphrey and Franklin G. Liming; Assistant Professor in Zoology—Winston E. Dunham; Instructors in Zoology—John E. Lotze and David C. Rife. In Home Economics, Catherine Londreth was appointed Assistant Professor, while Mabel A. Dickson and Opal Jane Matthews became Instructors. Torkel Holsoe was made Instructor in the Department of Horticulture and Forestry.

Student enrollment during the year was as follows:

In Agriculture.....	665
In Home Economics.	434
Total.....	1099

This is the largest enrollment in the College since 1920-21, and approaches the all time record. When it is recalled that the budget under which the College was operating was established to meet the needs of a smaller student body, it will be appreciated that extremely careful planning and increased effort have been necessary to meet the situation.

Due to the fact that limited finances called for economy everywhere there were no major changes in physical plant. Any change that has been made was necessarily of the most limited nature and at the lowest possible cost. Plans for fire proofing and enlarging of Townshend Hall have been under consideration but proved to be out of all possibility for financial reasons. The same comment may be made in connection with equipment that may be necessary or highly desirable in connection with many of our technical departments as well as with some of the departments of fundamental science.

Consideration has continued of the proposed five-year course in Agricultural Engineering, to the extent that agreement has been reached between the College of Agriculture and the College of Engineering that such a program will be offered. The plan is to have four years given in the College of Agriculture when the candidate will be eligible for the degree of B.Sc. in Agriculture. The fifth year will be taken in the College of Engineering, at the end of which the candidate will be eligible for the degree of Bachelor of Agricultural Engineering. There is real demand for this program.

Consideration of the four-year course in Forestry has continued and in connection therewith is planned a program in Conservation. The increased public interest in wild life and the preservation for public use of areas not offering opportunities for profitable agriculture have created a new demand for men trained in biology, well balanced between the plant and animal kingdom and coordinated with a knowledge of habitat in all of its elements. The term "biological engineer" has been informally applied to people so trained in a broad way and there is a large public demand for their services. Ohio is representative of a definite area that comprises several states and may well be regarded as the logical place for such a program to be presented.

Members of our faculty have maintained their interest and their attendance at the various organizations having to do with their special fields, even though they have not been able to enjoy benefits of travel expense from the University. This is another substantial evidence of their loyal and constructive interest. The University had several representatives from the College of Agriculture at the Association of Land Grant Colleges. Junior Dean Nisonger was Chairman of the Section of Resident Teaching during the year. Professors Salter and associates from the Department of Agronomy, and Reed and associates from the Department of Agricultural Engineering, continued their constructive program of work with the association of Agronomists, and their reports of movement of fertilizer in the soil, together with practical applications of their observations, have been of great value to the world of agricultural science as well as to the implement industry. Professor G. W. McCuen served as President of the American Association of Agricultural Engineers, which is a distinction not only to him as an individual but to his University as well. Professor C. H. Kennedy became President of the Entomological Society of America. Professor Alex Laurie continued service as Executive Secretary of the American Society for Horticultural Science. Professor Howard D. Brown was re-elected Executive Secretary of the Vegetable Growers' Association of America. Professor R. B. Stoltz served as President of the American Dairy Science Association.

The activities of the Junior Dean have been varied. During the autumn quarter he taught the regular survey course, with a registration of 220. Much of his time is devoted to counseling with students in the junior area. This means that he holds about five hundred interviews per quarter. In addition he has served as a member of the NYA projects committee, the University Personnel Council, the General College Committee and, of course, the Junior Council which comprises all of the Junior Deans.

In several departments it has been necessary to operate sections that are much larger than had previously been regarded as efficient. Some interesting observations have been made as a result. In some subjects it may be said that by developing a demonstration method, as opposed to the class and laboratory plan, excellent results have been shown. This plan is not possible in all subjects, however, inasmuch as laboratory work is essential in most of the technical subjects. Wherever possible the demonstration plan is being utilized in order to meet the demand for handling larger numbers of students.

Many courses have had to be dropped or given in alternate years. Confusion and some inconvenience results from both of these plans, but the staff is making every effort, through an efficient advisory system, to enable the student to carry out the program in an orderly and satisfactory way. The greatest confusion comes at the period of transition from one plan to the other. As we

move away from the time of such changes the program is naturally expected to become more orderly and less subject to change to meet the need of the individual.

We continue to encourage, in every possible way, the closer cooperation and coordination of activities between the various departments of the College, as well as between the College of Agriculture and other colleges on the campus. When a teaching program or a research project involves the fundamental interests of more than one department an effort is made to bring in the counsel of all who may have a contribution to make. If the problem involves the interests of other colleges, we feel it to be good management to include representatives of those colleges in the planning as well as in the execution of the project. Examples might be cited of such academic cooperation between the College of Agriculture and the College of Veterinary Medicine, the College of Engineering, and the College of Arts and Sciences; while the same may be said of research projects between the College of Agriculture and the Colleges of Veterinary Medicine, Engineering, and Medicine. There is no question but that this plan of cooperation makes for a more complete and thorough study and a more intelligent and useful development of practical applications.

The work of the Franz Theodore Stone Laboratory continues to attract graduate students during the summer season. Plans have continued for the further development of the laboratory, and a special committee of scientists has investigated and made certain definite recommendations for expansion. It is hoped, in time, to place the laboratory on a full-time basis of operation.

The Agricultural Extension Service has continued to operate intensively in meeting the demands of the federal government in the Agricultural Adjustment Administration. As a result of this program it was necessary to have an agricultural agent in every county of the state. This meant establishing agents in ten counties where no agents were located when the adjustment program was launched. A careful calculation of the time required for this new work has shown that more than 51 per cent of the time of the county agents was required for its administration. Much of this work was of a high-tension and trying nature and a number of the county agents have been near the breaking point. However, it is felt that no other agency could have been brought into action that could have served so well the demands of the new program, and no other agency could have been created that would have been so free from partisanship or which could have proceeded so intelligently as have the county agents.

At the same time the regular work for which the county agents are logically held responsible has gone ahead. This is especially true of organization work in the counties. Outstanding in this classification is the work with boys and girls known as 4-H Club work. Ohio leads the nation not only in numbers of members in these 4-H Clubs but in the number of definite useful projects completed.

The Farmers' Week attendance in 1935 was 6590. This is a record of actual, individual registrations, not including student registrations. The program of special short courses has been continued, and the total attendance was 980. At the Annual Extension Conference, a well planned program for extension workers, there was a registration of 210. The Grange Lecturers' School had an attendance of 156. At the 4-H Club Congress, a delegate body representing the clubs of the entire state, there was an attendance of 407. Each year is held on the campus the Vocational Judging Contest, bringing

teams from schools having courses in vocational agriculture. During 1934-35 there were 210 schools represented at this assembly with an attendance of 2467 individuals.

Farmers' Institutes have continued to attract many thousands of people from rural Ohio to meetings for the discussion of the problems of agriculture. During the year 695 institutes were held, with a total of 3353 sessions and with a total attendance of 892,518. The average attendance per session was 266. Ohio continues to occupy an advanced position in its work with Farmers' Institutes and with the encouragement of the forum plan of discussions it is felt that a great service is being rendered in helping to keep rural public opinion balanced and alert.

COLLEGE OF ARTS AND SCIENCES

DEAN WALTER J. SHEPARD

During the past biennium, the College of Arts and Sciences, as the entire University, has been seriously limited by the substantial reduction in revenues. It is a very heartening fact that in spite of the severe retrenchment which we have suffered, the work of this College has been carried on with high enthusiasm and spirit. The morale of the teaching staff has not been affected. All the members of our staff have fully realized and understood the difficulties under which the administration has labored, and have whole-heartedly co-operated in maintaining as high a standard of efficiency as possible.

It would be quite untrue, however, to minimize the serious nature of the conditions through which we have been passing. The necessity for a radical reduction of staff has thrown a very heavy burden upon our faculty. Every effort has been made to preserve the effectiveness of the teaching service. This has meant a teaching load quite beyond reasonable proportions for many of our teachers. Particularly during the year 1934-35, with a heavy increase in student enrollment, it has been necessary to call upon many of our staff to add several hours to their teaching load. The first and immediate effect of this has been to substantially slow down research programs throughout the college. A second and very noticeable effect has been to place a severe strain and tension upon some of our teachers which has definitely affected their health. In spite of increased teaching schedules, class enrollments have in some instances been unduly large. Such emergencies call forth ingenuity, and chairmen of departments and supervisors of elementary work have concerned themselves in devising arrangements by which the work could be maintained at as high a level as possible. In certain cases, class work has been conducted with large groups by means of lectures, and the result has been relatively satisfactory.

While the morale of the faculty has been excellent, there has been an under-current of uneasiness, even a feeling of unhappiness, natural in the circumstances, and certainly no greater than that which characterizes men in all walks of life in these days of uncertainty and doubt. The several reductions in salary have been accepted with the best possible spirit. The faculty has understood the causes which made these reductions necessary. Their effect has, however, been serious. Particularly have the younger men on our staff suffered. During the years immediately preceding the contraction of revenue, we were able to attract a large number of very able younger men to our staff. They came to us on small salaries, fully expecting that good work would carry its reward in promotion and advancement in salary. Many of this younger group have during the past five years distinguished themselves as excellent teachers and scholars. Some have won national and even international reputation through their scholarly publications. In many cases they have given hostages to fortune by assuming the responsibilities of marriage and parenthood. They have become an integral and most valuable part of the University. In most cases instead of realizing their justified expectations for advancement in salary, they are now receiving less remuneration than when they joined our

community. We have in several instances given them the rather barren recognition which promotion in rank implies without the corresponding increase in salary. A second group consists of men in the later thirties and early forties who, during their ten or fifteen years of academic experience at other universities, as well as at The Ohio State University, have ripened into mature and seasoned teachers and scholars. Their financial situation is not quite as acute as that of the younger group, but their salaries are far below their deserts and definitely below those of men in other institutions with whom they might be compared. These two groups constitute the heart of the University. We take great pride in a considerable number of senior professors, who reflect glory and distinction on Ohio State. But by far the major share of the work of the University is being done by men under forty-five. It is to them that we must look for years to come to carry aloft the torch of learning.

Unless some substantial improvement is immediately forthcoming with respect to salaries, many of our most able teachers and scholars will seek positions elsewhere. Those who do not find openings in other institutions, in the government service or in reviving business will inevitably feel a definite sense of discouragement and frustration which is certain eventually to affect their morale.

Many new developments and improvements, not only in physical equipment and facilities, but also in curricular organization and enrichment, in instructional methods, and in the environmental conditions and opportunities of our students have been postponed on account of the financial situation. We have not stood still with regard to these factors of education, but our progress has been definitely retarded. The faculty and administration of the College eagerly await a better day in which rapid advance along all these lines may be once more resumed. One discovers very quickly that progress and improvement always require additional financial support.

ENROLLMENT

The enrollment in the College for each of the four quarters, with the voluntary withdrawals, for the two years of the biennium, has been as follows:

	1933-34				1934-35			
	Sum- mer	Au- tumn	Win- ter	Spring	Sum- mer	Au- tumn	Win- ter	Spring
Arts.....	316	1,900	1,741	1,598	342	1,997	1,828	1,711
Arts-Education	30	78	80	88	26	86	81	86
Total.....	346	1,978	1,821	1,686	368	2,083	1,913	1,797
Withdrawals—Men	9	18	26	10	4	24	20	16
Withdrawals—Women.....	2	13	5	4	2	6	15	8
Total.....	11	31	31	14	6	30	35	24

The considerable increase in enrollment during the year 1934-35, and the probability of a still greater increase for the year 1935-36, enforce the necessity of restoring the teaching staff, both in number and quality, at least to the position which it occupied before the radical reduction which it suffered two years ago.

The student body in the College may be classified with respect to the cur-

riculum pursued or the announced vocational purpose of the student. The following table covers the Autumn Quarter of 1934:

Classification	Number
Straight Arts.....	997
Arts-Education.....	92
Arts-Medicine.....	315
Pre-Medicine.....	123
Arts-Dentistry.....	9
Pre-Dentistry.....	78
Arts-Law.....	162
Pre-Law.....	88
Arts-Engineering.....	25
Arts-Commerce.....	15
Arts-Graduate.....	6
Pre-Graduate.....	5
Unclassified.....	270
Total.....	<u>2185</u>

It is evident that while much the largest single group of students in this College is pursuing a Straight Arts course; i.e., a course leading directly to the A.B. degree without an immediate professional purpose, the great majority are looking forward definitely toward some profession. Those designated as Arts-Education, Arts-Medicine, Arts-Dentistry, Arts-Law, Arts-Engineering, Arts-Commerce, and Arts-Graduate expect to take the A.B. degree under a combined Arts and professional or graduate curriculum. Those whose classification contains the prefix "Pre" intend to remain in the College of Arts and Sciences only for the period (usually two years) necessary to gain entrance to the professional school of their choice. These data clearly demonstrate to how large an extent the College of Arts and Sciences is a service organization which provides the basic preparation for work in the professional schools.

The students classified as Arts-Medicine and Pre-Medicine constitute one of the serious problems of the College. The enrollment of these two groups for the Autumn Quarter was, it will be observed, 438. There are about 200 freshmen each year who enter the College with the announced purpose of preparing for medicine. A very few of these may eventually enter other medical schools than that of Ohio State University. In addition to these freshmen there are many pre-medical students who enter the College each year in the Sophomore and Junior classes by transfer from other colleges and universities. Not more than seventy-five can ever obtain admittance to the medical school on this campus. This means that nearly three-fourths of these entering freshmen are inevitably destined to disappointment. Some are dismissed early from the University; others recognize the hopelessness of their purpose and withdraw. But a large number continue on to the end, often taking a fourth year in the College, after having been refused admission to the Medical School at the end of three years work, in the hope that this additional year will gain for them their coveted goal, only to be refused a second time. It is one of the unpleasant duties of the College administrative staff to strongly discourage all but the most promising of these students from the continued pursuit of a medical career. Unfortunately our efforts in this direction, based as they are upon the relevant facts, have little effect. The

result is that a considerable number of our students find themselves in their senior year, or upon graduation, with a rather specialized training largely consisting of pre-medical requirements without the opportunity to enter their chosen field. They have largely missed the chance to secure a liberal education, and they have failed to secure entrance to the professional school to the preparation for which they have devoted several years. The A.B. degree which they eventually secure from this college does not attest the achievement of a liberal education; it rather represents only a disproportionate and unbalanced course of study. The frustration of this considerable group constitutes one of the major problems of our College, which is as yet quite unsolved.

DEGREES

The total number graduating during the year 1933-34 was 308, during 1934-35, 334; they were distributed as follows:

1933-34

	Summer	Autumn	Winter	Spring	Total
B.A.	33	27	35	209	304
B.Sc.	—	—	1	3	4
Total.....	33	27	36	212	308

1934-35

B.A.	41	34	36	222	333
B.Sc.	—	—	—	1	1
Total.....	41	34	36	223	334

The total number graduating from this college during a period of eight years has been as follows:

1928-29.....	358	1932-33.....	359
1929-30.....	381	1933-34.....	308
1930-31.....	412	1934-35.....	334
1931-32.....	407		

There is a fairly close correlation between these figures and those for total enrollment for the College and the University. The effect of the large increase in freshmen students in 1934-35, and the prospective increase in 1935-36 will probably restore the number of degrees granted to the previous maximum in the course of three or four years.

HONORS

One of the most satisfactory and encouraging aspects of College statistics is the generally increasing number of students who achieve a 3.5 cumulative point ratio and whose names appear on the annual honor-roll of the College. In 1933-34, there were 154 students on the honor roll, of which 93 were men and 61 were women. In 1934-35 there were 168 honor students, 121 men and 47 women. The total number of honor students during a period of years has been as follows:

1928-29.....	68	1932-33.....	120
1929-30.....	91	1933-34.....	154
1930-31.....	128	1934-35.....	168
1931-32.....	134		

Students who graduate with a cumulative point ratio of 3.5 to 3.8 receive the designation *cum laude*; those whose cumulative point ratio is 3.8 and above receive the designation *summa cum laude*. During the past three years, the numbers in these two categories have been as follows:

Year	cum laude	summa cum laude	Total
1932-33.....	22	7	29
1933-34.....	34	3	37
1934-35.....	32	6	38

Certain exceptionally superior students are in their senior year relieved of a part of the routine course requirements and permitted to do a considerable amount of work in a special field under the direction of a designated teacher. These students are largely thrown on their own initiative, and are subjected to a searching, oral, comprehensive examination. If they acquit themselves with distinction in their special fields of study, this is indicated on the commencement program. They may achieve high distinction which is similarly indicated. During the past three years the results have been as follows:

Year	Distinction	High Distinction	Total
1932-33.....	10	6	16
1933-34.....	8	6	14
1934-35.....	13	9	22

DISMISSAL, PROBATION AND REINSTATEMENT

The number of students dismissed from the College of Arts and Sciences for the years 1933-34 and 1934-35, distributed by quarters and by the various faculty rules which apply, are shown in the following tables:

1933-34					
Rules by which Students were dismissed	Summer	Autumn	Winter	Spring	Total
On Probation.....	1	17	30	18	66
.65 rule.....	2	30	6	11	49
Nine-quarter rule.....	..	8	2	7	17
Six-quarter rule.....	..	15	4	23	42
Probation more than twice....	1	5	4	6	16
Incomplete rule.....	..	..	..	6	6
Total	4	75	46	71	196

Of these 196 students dismissed, 74 were freshmen, 60 were sophomores, 45 were juniors, 13 were seniors and 4 were special students.

1934-35					
Rules by which Students were dismissed	Summer	Autumn	Winter	Spring	Total
On Probation.....	2	16	32	23	73
.65 rule	2	37	12	12	63
Nine-quarter rule.....	..	4	1	4	9
Six-quarter rule.....	..	12	10	10	32
Probation more than twice....	1	4	1	6	12
Incomplete rule.....	..	4	4	2*	10
Total	5	77	60	57	199

Of these 199 students dismissed, 99 were freshmen, 68 were sophomores, 19 were juniors, and 13 were seniors.

* Executive Committee.

The record of students placed on probation during the two years under review is as follows:

Quarter	Freshmen	Sophomores	1933-34 Juniors	Seniors	Specials	Total
Summer	2	3	...	...	1	6
Autumn	71	38	14	3	1	127
Winter	39	19	8	1	1	68
Spring	35	8	5	2	...	50
Total.....	147	68	27	6	3	251

Quarter	Freshmen	Sophomores	1934-35 Juniors	Seniors	Specials	Total
Summer	3	3	2	...	...	8
Autumn	79	25	7	2	...	113
Winter	44	18	6	3	...	71
Spring	42	14	6	2	...	64
Total.....	168	60	21	7	...	256

During the academic year 1933-34, 161 petitions for reinstatement were submitted to the Petitions Committee. Of these, 57 were declined and 28 approved unconditionally, and 76 approved conditionally upon the student's passing an examination on two or three books. Of these students whose petitions were approved conditionally, 46 took the examination, and 27 passed. The total number of reinstatements was, therefore, 55.

In the following year, 1934-35, 118 petitions for reinstatement were submitted. Of these 33 were declined, 20 approved unconditionally, and 65 were approved conditionally upon the student's passing an examination on two or three books. Of the last group 46 took the examination and 29 passed. Therefore the total number of reinstatements was 49.

COMBINED ARTS-GRADUATE CURRICULUM

On December 15, 1932, a special curriculum was authorized for a small number of students who at the end of their junior year have a cumulative point ratio of 3.5. The administration of this curriculum is in the hands of a committee, appointed jointly by the Dean of the Graduate School and the Dean of the College of Arts and Sciences. Not all students who have the necessary point ratio are admitted to this vigorous and very exacting course of study. The course extends normally over a period of four quarters, and, if completed satisfactorily, the student secures on its completion both the A.B. and A.M. degrees. Students under this curriculum are relieved from enrollment and attendance in regular courses, though they may attend lectures without responsibility for regular examinations, if their advisers approve. Each student is under the guidance and direction of two advisers. The requirements of the curriculum include the writing of a thesis which must in every way measure up to the standard of a Master's thesis. On the completion of the work the student is subjected to a thorough and searching oral examination which is quite equivalent to the oral examination for the A.M. degree in regular course.

In the Spring of 1933 a list of thirty-five students were informed by the Secretary of the College of Arts and Sciences that they were eligible to apply for admission to the combination Arts-Graduate curriculum. Of those of that list who made formal application, four were admitted. Three completed the requirements and in every case received the degrees of Master of Arts and Bachelor of Arts with high distinction in his special field of concentration. The

fourth candidate was returned to course at his own request as he did not wish to make the sacrifices demanded by this rigorous program. Since then twenty-one students have applied. Ten were accepted, two were returned to course at their own request, five have completed the requirements and at the present writing there are three candidates working under the provisions of this curriculum. The number who have been enrolled is obviously small. It is not expected that it will ever be more than a small group, though it is hoped that it will gradually increase somewhat.

The results of two years experience with this specialized course of study are very encouraging. The students themselves have been quite frank in their criticisms but have unanimously expressed their approval of the plan and their assurance that they have profited greatly from the release from the regular requirements. It is not the shortening by two quarters that they consider of particular value, but the opportunity to work rather independently, though under guidance and direction, and the opportunity for initiative which is given. Experience indicates some definite criticisms. There is a danger of overspecialization which must be guarded against in the future. The quantitative requirements have been too high, with the consequence that the student for these four quarters has been hard driven and has found no time to cultivate extra-curricular interests. This defect is in process of correction. Perhaps the most serious difficulty encountered has been the lack of time and energy on the part of the advisers to give adequate attention to the work of students under their supervision. Such an experiment as this is of the highest importance. To be ultimately successful it should be recognized that teachers in order to successfully direct this kind of work must have a considerable reduction in their regular teaching load. Thus far the advisers have carried this work as an over-load. However willing and enthusiastic they may be in accepting this responsibility, it is only another instance of the additional burdens, over and above their regular course work, which are being thrown upon our teaching staff.

THE COLLEGE ADMINISTRATION

The administrative staff of the College interprets its work as essentially educational in character. There is necessarily a large amount of purely routine and administrative work, but in increasing degree it is the educational function of advice, stimulation, guidance, and assistance in the solution of the myriad of personal problems that engage the efforts of the staff. We are assured that the College office is viewed by the students as a friendly place where an atmosphere of helpfulness and sympathy exists, but where also there is definite insistence upon the standards and accomplishments implied in the concept of a liberal education. Student interviews are not confined to the sterile explanation of college requirements and the enforcement of college and university rules. They rather generally assume the character of frank and sympathetic discussions of the individual student's interests and purposes, and the best means of furthering them. Before the entering Freshmen is enrolled, we are now supplied with a rather complete report on his high school record, including not only grades in courses, but the personal appraisal of the principal and other data that is pertinent to a judgment as to his probable success or failure in the University. This is supplemented by increasingly critical and penetrating information from the Freshman-Week leaders. On the basis of these data, we are in a position to approach the problem of each student

intelligently, to make helpful suggestions and prescriptions, to encourage, to warn, and to assist from the moment the student comes under our jurisdiction.

We are giving increasing attention to the superior student. While not neglecting the obligation which the College owes to all of its students to provide the means to a liberal education, we recognize also our special function to train for leadership. In increasing degree students of high intelligence and ability are being relieved of routine requirements, directed into courses and classes open only to superior students, and encouraged to pursue extensive reading programs to supplement the formal work of the College. The results have been decidedly encouraging.

THE DEPARTMENT OF BACTERIOLOGY

In the autumn of 1934, Professor C. B. Morrey indicated his desire to retire from active teaching and to surrender the chairmanship of the department. Graduated from the Ohio State University in the class of 1890, Professor Morrey has been an active member of the teaching staff since that year with the exception of two years which he spent abroad pursuing advanced studies. His connection with the University as a teacher antedates that of any other member of the University faculty. His retirement is well earned, and his promotion to the status of emeritus professor carries with it our best wishes and a deep appreciation of his long and useful active connection with the University and with the development of the work of bacteriological science on this campus. The retirement of Professor Morrey has necessitated a rather complete reorganization of this department. The enrollment of students in the Department of Bacteriology has shown a steady and rapid increase for a number of years. It provides essential instruction for students in the Colleges of Medicine and Veterinary Medicine, the Departments of Dairy Husbandry, Animal Husbandry and Soils. Its courses are widely elected by students in the College of Education and to a considerable degree in other colleges, and it has a substantial enrollment of students in the College of Arts and Sciences. Bacteriology is a basic science, attracting a large number of undergraduates and graduate students who wish to specialize in this field. It is also a service department offering essential auxiliary work for students specializing in a number of other fields. Its importance in the general University structure is therefore obvious. After a thorough canvass of the men who were available to assume the leadership of this Department, Professor N. Paul Hudson of the University of Chicago was persuaded to accept a professorship and the chairmanship of the Department, beginning with the academic year 1935-36. Four assistant professors will be added to the department: Oram C. Woolpert, Floyd C. Markham, Jorgen M. Birkeland, and Grant L. Stahley. Assistant Professor Fred Speer has resigned from the University to engage in private practice. The Department, thus strengthened, will enter upon its work in the Autumn of 1935 with every prospect of an enlarged opportunity, and an increased usefulness.

DEPARTMENT OF CHEMISTRY

The death of Professor Jesse E. Day on April 19, 1935, has removed from the Department of Chemistry and the University a teacher and scholar of great usefulness and influence. For a number of years, he has directed the work in the elementary courses with high enthusiasm and success. With the very large enrollment of students in these courses, his was a key position. His loss is felt as a serious blow to the Department. Arrangements have been

made for Professor W. Conard Fernelius to assume the direction of elementary courses in Chemistry. The department has also suffered a severe loss in the resignation of Professor Edward Mack, Jr., effective at the end of the academic year 1934-35. He leaves us to accept the chairmanship of the department of Chemistry at the University of North Carolina. This vacancy will not be immediately filled. Additions to the department for the year 1935-36 include Assistant Professor Lawrence Quill, who comes to us with a fine teaching and research record from the University of Illinois; and Alfred B. Garrett and Arnold A. Alberts, who come to us as instructors from Kent State College and Stanford, respectively. A recommended undergraduate curriculum for students intending to specialize in Chemistry has been adopted by the requisite college and university authorities which, it is believed, offers the best possible guidance for students of high ability. During the biennial period under review, the department has been very active in research. A full report of investigations and publications appears in the report of the Dean of the Graduate School. The establishment of The Sidney Augustus Norton Faculty Alcove in The Charles Carter Sharp Library as a memorial to the first professor of Chemistry in the University, in which may be found all the scientific papers and books published by the faculty of Chemistry and some of its students since the year 1872, is an interesting and significant addition to the equipment of the department. The departmental record includes a wide range of activities: addresses before both scientific and popular audiences, a series of radio broadcasts, participation in important conferences, memberships in such organizations as The National Research Council, etc. The record of honors awarded to members of the department and to advanced students is likewise most gratifying.

Department of Classical Languages

In June, 1933, Professor A. W. Hodgman retired from active service and accepted an appointment as professor emeritus. In June, 1934, Professor Wallace S. Elden likewise became professor emeritus, a status which he held only until January 13, 1935, when death claimed him. A graduate of Bowdoin College, and holding the Ph.D. degree from the University of Wisconsin, he served as instructor at Ohio State University from 1892 to 1894, and from 1900 until his death was continuously on our faculty, as Assistant Professor, Associate Professor, and Professor. After a leave of absence of three years, during which time he held the very important position of Director of the School of Classical Studies in Rome, Professor Marbury B. Ogle returned to the University and to active teaching in the summer quarter of 1934. He was almost immediately tendered a very flattering offer to become chairman of the Department of Latin at the University of Minnesota, and accepted. His loss is a heavy one to the department and to the University. Professor J. B. Titchener who had served as acting chairman, during Professor Ogle's absence, was made chairman of the department. Dr. K. M. Abbott was appointed instructor. The result of these changes in personnel in the department is revealed in the fact that while the average age of the staff in 1930 was 52 years, the average age in 1935 is 39 years. A rather complete reorganization has thus taken place. On Professor Elden's death, Mrs. Elden gave to the University, through the department, Professor Elden's classical library of about 600 volumes. Special provision for this collection has been made in an alcove in Derby Hall, and the room is to be known as the Elden Memorial

Library room. The department is carrying on an active research and publication program.

Department of English

In June, 1932, Professor Joseph V. Denney retired from active service and became professor emeritus. On June 19, 1935, his long and useful connection with the department of English and the University was brought to an end by his death. Coming to The Ohio State University after several years of work in the fields of journalism and secondary education in 1891, he had been a teacher of English in this University for 41 years, and for 31 years he was chairman of the department. From 1901 to 1921 he was Dean of the College of Arts. One of the outstanding figures in the history of the University, his influence has been equalled by few others. The death of Professor Joseph R. Taylor on March 30, 1933, while still in active service after a continuous connection with the department of English of thirty-six years and the death of Professor Clarence E. Andrews on December 12, 1932, are also to be recorded as very serious losses to the department. None of these senior professorships has been filled. Younger men in the department have assumed the responsibility for courses long associated with the names of Professors Denney, Taylor, and Andrews. Their loss necessitates a considerable rebuilding of the department which is now in process, but these losses, together with the resignations of several members of the junior staff, have left the department seriously understaffed.

In June, 1934, Professor E. L. Beck who had served as Acting Chairman of the department for the two previous years resigned from this position. The direction of the department was placed in the hands of an executive committee, consisting of Professors M. O. Percival, H. R. Walley, and J. F. Fullington. In October, 1933, Assistant Professor T. C. Pollock was added to the staff. His special field is American Literature. It is expected that several appointments will be made for the year 1935-36.

The most significant change of recent years was the thorough revision of the curriculum, which was put into effect in the Autumn Quarter of 1934-35. This involved the cancellation of several courses on the "400," "500," and "600" levels, the modification of others, and the introduction of several new courses. The aim on the "400" and "500" levels was to arrange and integrate a series of courses which would be educationally valuable to the non-English major and which would provide a satisfactory preliminary background and training for the prospective English major. On the "600" level the aim was to provide courses which would adequately cover the vast field without overlapping and to group and relate the courses in English language and literary history so that the student's chosen course of study could be made significant. To assist in this aim, the system of "Cycles" was inaugurated, so that in the senior year the English major would be required to spend at least a portion of his time in a consistent program of concentration.

Beginning with the Autumn Quarter of 1934-35, upon the authorization of the Board of Trustees, a small fee has been levied upon students in the introductory literature courses, 430 and 440, the proceeds from which are used to support a library and reading room, now housed in Room 205 of Derby Hall. The function of this library is two-fold: (1) to loan texts to students for class use, a procedure necessitated by the high cost of the texts required for educational effectiveness, and (2) to stock a reading room with contemporary and

recent literature, necessitated by the inability of the Main Library to purchase such materials. By both students and instructors, this program is highly approved. On the ground of educational benefits, the program has thoroughly justified itself.

The department has, during the biennium, carried on an active program of research and creative writing. Sixteen books and monographs have been written and are either published or in process of publication. A series of well-attended public lectures was given during the past year on various aspects of English and American Literature by various members of the staff. A rather extensive radio program has likewise been successfully conducted.

Department of Geology

On August 11, 1934, Associate Professor William A. P. Graham, whose special field was that of Economic Geology, died suddenly while engaged in Geological field studies in western Montana. He came to Ohio State University as an Assistant Professor in 1928, after a splendid University training at the University of Minnesota, from which he had been given the doctorate, and with several years of teaching experience. He had won a strong place in the department and in the University. His loss was a very severe one.

Dr. Bruce C. Freeman was engaged as an instructor to teach the courses in Economic Geology previously taught by Associate Professor Graham.

The Department of Geology has shared in the increase in student enrollment in its courses and has coped with the consequent problems thus presented without any additions to its staff. The result has been that a heavy teaching load has been borne by the departmental staff.

The Summer Field Course, operating from a base near Dayton, Tennessee, was given during the Summer of 1933 under the direction of Dr. Stockdale. The course was not offered in 1934 because of its relatively high cost and lack of advance registration. This valuable course is being offered in 1935.

Members of the department have continued their activity and interest in research, though overloads of teaching service and financial effects of the depression have interfered somewhat in field work and other opportunities for study.

The recent death of Mrs. Bownocker, wife of the late Dr. John A. Bownocker, who was for many years Professor and Chairman of the Department of Geology, ended a life estate held in trust for her benefit. By the terms of Dr. Bownocker's will, the estate was bequeathed to the Ohio State University, with the income to be used "for the benefit of the work in the Department of Geology." Plans are in process for the proper use of this splendid bequest.

Department of German

During the two academic years 1933-1935 there have been several changes in the instructional staff of the Department of German. Professor Ernst Phillippson, who had taught the linguistic courses in the department, returned to Germany in 1933-34. His courses were taught by Professor August C. Mahr until the Autumn of 1934, when Dr. Hans Sperber was added to the staff as a Lecturer. Associate Professor Robert O. Röseler accepted a call from the University of Wisconsin in the Spring of 1934. His work of supervising the courses in the junior area was assumed by Mr. Kramer, who also took care of the scholarship test work for the State Department of Education. A new

instructor, Dr. Peter Epp, was added to the staff and six graduate assistants to care for the increasing enrollment in German. The study of German by students in the University is increasingly popular. During the three-quarter absence-on-leave of Professor M. B. Evans, Professor Mahr served as acting Chairman from January to October, 1935.

The curriculum of the department has been carefully studied and alterations in courses are in progress to make them even more effective than they have been in the past.

Members of the department have taken an active part in the Modern Language Association. Several significant pieces of major research have been completed or are nearing completion by various members of the departmental staff.

Department of History

In December, 1934, the department lost one of its senior members in the death of Professor Arthur H. Noyes, who had so competently and faithfully supervised the elementary sections in the field of European History, and who had developed the work in English History. The loyal co-operation of the members of the department made it possible for his work to be absorbed without any replacement for him in the Winter and Spring Quarters, Dr. McNeal and Dr. Landin assuming responsibility for his advanced work.

The total student course enrollment of the department has increased from 4522 in 1933-34 to 4828 in 1934-35, with a corresponding increase in the size of sections in the elementary courses, and with no paper readers to assist the instructors excepting two or three F.E.R.A. students. The work, however, did not suffer, due, first, to the excellent staff of instructors, including two new members, Mr. W. P. Hotchkiss and Mr. Joseph C. Robert, and second, to the excellent spirit of the entire staff.

The Board of Trustees authorized a one dollar library fee, effective in the Fall Quarter, 1935, for all students enrolling in the elementary courses of American and European History. The books so purchased quarterly will be available in the new Departmental Library and Reading Room on the second floor of University Hall. These achievements make possible the reorganization of the offerings in the elementary areas. By the fall of 1936 the first course in European History will be a three-quarter sequence of five hours each on the history of Western Civilization, in which intellectual, social, and cultural, as well as the traditional content of European History courses will be emphasized. The fundamental course in United States History will be strengthened along similar lines.

Effective on July 1, Dr. Howard Robinson, Head of the Department of History at Miami University and until recently Dean of the College of Liberal Arts at that institution, will join our staff as a full professor, with the particular task of developing the important field of English History both on the undergraduate and the graduate level. Dr. Robinson is a most experienced and successful teacher, and an author of fine reputation in the field of English History, and intellectual history.

Department of Mathematics

After careful study over a year's time the department has made certain fundamental changes in courses and course hours for advanced undergraduates and graduates. The department has also withdrawn two sub-freshman courses,

and an elementary course designed particularly for students in the College of Agriculture. On the request of the Council of Junior Deans the department assumed responsibility for offering certain tutorial courses to students needing to make up entrance conditions in Algebra and Geometry, or to students not adequately prepared to carry the usual freshman courses. For this service each student is required to pay a fee of \$5.00 for each subject taken during the quarter. The instructors in these courses are recruited from the graduate students in the department. During the past year there have been fourteen classes in tutorial Mathematics, all under the direct charge of Professor C. C. Morris, assisted by Professors Rasor and Weaver.

Due to the necessity for reducing the staff in Mathematics, at the end of the fiscal year 1932-33, Dr. Bush and Dr. Thielman, who held temporary instructorships, were not reappointed. Dr. Bush secured a position as Head of the Department of Mathematics for the next year at St. Thomas College, St. Paul, Minnesota, and Dr. Thielman joined him with the rank of Professor of Mathematics the following year. During the present year Dr. Wylie, who was granted a Ph.D. degree by Cornell in June, 1934, was elected to an assistantship in the department in order to participate in the work of the experimental course in the Calculus for Electrical Engineering students. Dr. Wylie's work has been entirely satisfactory.

An unusual experiment in inter-departmental co-operation has been participated in by this department.

At the suggestion of the Department of Electrical Engineering, the department is this year conducting an experiment on the teaching of the Calculus to Electrical Engineering students. Three sections have been involved in this experiment. One section has been taught by Professor Weaver, one by Professor Ott of the Department of Mechanics, and one by Professor Bibber of the Department of Electrical Engineering. Professor LaPaz has taught a section in Mechanics in exchange for the work done by Professor Ott, and Professor Bamforth has conducted a Seminar in Tensor Analysis for the Department of Electrical Engineering in exchange for the work done by Professor Bibber. Dr. Wylie has assisted in this experiment by devising new problems of a physical nature, reading reports and examination papers, etc. Dr. Wylie has also taught one class of engineers during the year. Among the significant results of this experiment are (1) Better co-operation between the Departments of Physics and Mathematics in the matter of teaching the Calculus and Physics to sophomore Engineering students, and (2) Better co-operation and understanding between the Department of Mathematics on the one hand the Department of Mechanics and the technical Engineering departments on the other in the matter of the work of the Department of Mathematics as it relates to the College of Engineering.

Department of Philosophy

In 1933 the department lost the valuable services of Professor E. W. Hall, who left to assume a position at Stanford University. His place was not filled. In 1934 the number of assistants for Arts Survey 605 was reduced from two to one. During the year 1934-35 the enrollment in this course materially increased.

The senior members in the department have been active in their professional Association, and are continuously productive in significant scholarship.

Phonetic Division

Budgetary reductions have caused the teaching staff of this Division of the University to be reduced somewhat and the loss of funds for student labor also caused a contraction of certain of its activities. Thanks to aid made possible by the Federal Government through the Federal Emergency Relief Administration funds, students were used to make and repair apparatus and relieve the members of the staff to carry on their teaching and clinical work. Much time has been required to supervise the twelve F.E.R.A. students.

The Phonetic Division has continued to serve many students with speech and hearing defects throughout the past two years by means of its clinic.

Department of Physics and Astronomy

In the period covered by this report, there has been only one change in the senior staff of this department. Assistant Professor D. R. Inglis resigned to accept a similar position with the University of Pittsburgh. To replace him, Dr. George H. Shortley came to the campus from Massachusetts Institute of Technology where he had held a National Research Council Fellowship. In the temporary or junior staff the department has suffered by reduction of numbers during the two years just ended.

Administrative changes within the department have been of great importance to the work of the University. The most significant administrative change made in the period 1933-35 arises out of the union of the work in astronomy with the work in physics for administrative purposes. Under this new administrative arrangement, there will be an attempt to work out a unified program for physics and astronomy in which former boundaries between teaching and research will be eliminated so far as possible. This plan should favorably influence teaching and research in physics and astronomy.

A second administrative change of importance is the agreement to transfer the work in applied optics to the Department of Physics and Astronomy for purposes of administration. The curriculum will be administered in the College of Engineering under the guidance of the Chairman of the Department of Physics and Astronomy. The staff will be budgeted in the regular way through the Dean of the College of Arts and Sciences and in that sense will become a responsibility of the Dean of the College of Arts and Sciences. In the long run, this administrative readjustment ought to make it possible to workout and clarify this difficult situation with the possibility of making it worth while to the University. An assistant professor of physiological optics will be appointed as soon as a suitable selection can be made. He must be trained in physics, in physiology, in psychology, and the art of optometry. Under the direction of such an instructor it ought to be possible to improve the quality of this work and develop for it a new set of standards.

A most significant forward step made during this biennium by the Department of Physics and Astronomy was taken when an agreement was reached under which the Perkins Observatory will be administered jointly by the Ohio Wesleyan University and the Ohio State University. This gives the Ohio State University the scientific opportunities which are present in the third largest reflecting telescope in the world and insure facilities for astronomical research which can be equaled by few universities.

Curricular changes in the departmental offerings include the development of a unified course in physics and astronomy which is proving to be very

stimulating and profitable for students who do not plan to specialize in the physical sciences. Professors Smith, Manson, and Hesthal are to be congratulated on their success in arranging this course. Attention has been given to improvement of instruction in all the courses of general physics which has resulted in better organization of the laboratory work and demonstrative experiments. A new laboratory manual was also prepared and is proving useful. Mention has been made in the report of the Department of Mathematics of the integration studies in the physics, calculus, and engineering courses. Dr. Bennett and Dr. Heil have handled the study from the standpoint of the Department of Physics and Astronomy.

This department has continued its work of public service activities, among other things assisting in the teaching of the Police School and maintaining exhibits at the State Fair.

Research work has been carried forward with much zeal and many happy results. A long list of important scientific papers contributed by members of the department attests to this statement. More space in which to work and additional equipment are needed in the development of this department, both in its teaching and in its research activities.

Department of Political Science

The Department of Political Science has continued without many changes of great importance. The faculty of the department remains the same as it was in the preceding biennium. The course offerings of the department are fairly well stabilized. Enrollment figures show an increase in demand for study of political science, so much so that further increases will require additional staff to care for them. The Dean has continued teaching courses in Political Theory. The Secretary of the College, Mr. Hamilton, has helped care for increased enrollments by teaching sections of American National Government and State Government.

In an attempt to assist the University Administration in its solution for a suitable substitute for the required course in Military Science in the cases of conscientious objectors, the department offered a course called "The Peace Movement," which was taught by Professor Spencer.

Under the organization and direction of Professor Harvey Walker, the Schools of Police Administration and Fire Protection have been continued with increasing interest and appreciation shown by growing numbers in attendance. The department has also sponsored the Central Ohio Institute of Politics which has proven a useful intercollegiate student conference in international relations. Mr. Foster has advised and managed this undertaking.

Constant demands are made upon members of the department staff for participation in lectures, conferences, radio broadcasts, and other public appearances. Mr. Odegard's participation in the Des Moines forum sponsored by the United States Commissioner of Education, Mr. Studebaker, was much appreciated. The Dean served a term as President of The American Political Science Association and as a member of the Social Science Research Council.

Research activities within the department have been continuous. Articles, pamphlets, and books have been completed and published or are in process at the present time.

Department of Romance Languages

In the period under review, the work done in this department in the area of the introductory courses in French and Spanish, under the supervision of Professor Robert E. Monroe, has been especially noteworthy.

Here the introduction of general proficiency tests with the consequent correlation of the work of different instructors, and the division of classes according to ability has brought to the fore the question of the preparation of students who come to us with credit in French or Spanish. To place these students where they belong in our classes, or to put them where they have a fair chance to succeed without lowering of standards, a series of placement and proficiency tests has been developed which gives very satisfactory results. For example, in the Autumn Quarter 126 students were found in French who would have had little chance of success if arbitrarily classified on the basis of one high school year equaling one quarter. At the same time 39 students were found who might have lost interest by remaining in classes that were too elementary. The placement tests acted as an immediate stimulus to the departments in the secondary schools from which we regularly draw our students. These examinations, our visits to secondary schools, and encouraging letters from us to the principals and teachers of schools that have sent us good students, have brought about a "rapprochement" between this department and similar departments in secondary schools. Out of this relation grew the demand for Every-Pupil and State Contest Examinations of the type used in our placement tests. In the last two years this Department has produced at the request of the State Department of Education three Every-Pupil tests and two Scholarship Contest Examinations in French and two Every-Pupil tests and one Scholarship Contest Examination in Spanish.

Members of the staff of this Department have also met with extraordinary success by employing our class-room technique in radio broadcasts of foreign languages. In this field the work of Mr. Meiden during the present year has been outstanding.

The advanced courses in this department are in nearly every case taught by men who are specializing in the fields covered.

COLLEGE OF COMMERCE AND ADMINISTRATION

DEAN, WALTER C. WEIDLER

Herewith is submitted the report of the College of Commerce and Administration for the biennium 1933-35. This report includes the reports of the various departments and schools administered in the college.

STUDENT ENROLLMENTS

The biennium has witnessed a steady increase in student enrollment as compared with that of the school year, 1932-33. The enrollment for 1934-35 exceeded that of 1933-34 by a substantial percentage. The marked increase in last year's Freshman enrollment promises a continued rise in the growth curve of the college.

The enrollment by quarters for the past two years (1933-34 and 1934-35) was as follows:

Year	Summer	Autumn	Winter	Spring
1933-34.....	199	1610	1519	1502
1934-35.....	234	1883	1821	1722

In addition to the resident student enrollment noted above, the Department of Commerce Extension recorded a total of 933 one-quarter registrations in 1933-34 and 865 one-quarter registrations in 1934-35. This Extension enrollment is particularly noteworthy in the light of the greatly reduced budget and teaching personnel at the disposition of the Department.

DEGREES GRANTED

The degrees granted by quarters were as follows:

BACHELOR OF SCIENCE DEGREES GRANTED BY THE COLLEGE OF COMMERCE AND ADMINISTRATION— 1933-34, 1934-35

QUARTER	YEAR	TOTAL	BUSINESS ADMINISTRATION		SOCIAL ADMINISTRATION		JOURNALISM	
			Men	Women	Men	Women	Men	Women
Summer	1933.....	37	26	2	1	5	3	0
Autumn	1933.....	32	25	0	0	1	6	0
Winter	1934.....	24	18	0	1	2	2	1
Spring	1934.....	192	116	23	1	25	23	4
Summer	1934.....	33	21	4	1	3	3	1
Autumn	1934.....	29	20	2	0	4	3	0
Winter	1935.....	23	21	0	0	0	1	1
Spring	1935.....	167	105	20	1	18	11	12
TOTAL.....		537	352	51	5	58	52	19

COLLEGE ORGANIZATION

During the past biennium, the Board of Trustees authorized the division of the Department of Sociology and the creation of a new Department of Sociology and of a School of Social Administration. We have now had sufficient experience under this division of staffs and responsibilities to convince us that we are securing a clearer formulation of objectives than was possible when these two areas of work were combined in a single administrative area. With its separate staff and Director, the School of Social Administration has made considerable progress in offering the technical training so greatly needed today. It is clear, however, that considerable additions to the teaching staff are necessary if we are to cope at all adequately with the problems of modern social administration training.

CHANGES AND PROMOTIONS IN THE TEACHING STAFF

Accounting Department

Mr. R. N. Frickey, Instructor in Accounting, resigned March 1, 1934, to accept a position as Head of the Accounting Division of the Ohio Department of Liquor Control. Mr. G. Arnold Logan, Instructor, resigned September 30, 1934, to take a position as Chief Accountant with the Colorado General Hospital.

Mr. Paul J. Graber was appointed to an Instructorship to succeed Arnold Logan, resigned.

Associate Professor Hermann C. Miller was named Professor of Accounting effective October 1, 1934.

Business Organization Department

A number of significant staff changes have occurred in this Department. Professor Willis Wissler, who divided his time between the Department and the Bureau of Business Research, resigned to accept a position as Regional Engineer with the Federal Emergency Relief Administration.

Assistant Professor Tracy E. Thompson of the Division of Industrial Management has been absent on sick leave for the past eighteen months. It is gratifying to note that Mr. Thompson is experiencing a substantial recovery and should be ready for duty in the course of another year.

Instructor J. Wayne Ley resigned to accept a position in the Legal Department of the National Recovery Administration. Mr. A. L. Odebrecht, an Instructor, has resigned to continue his services with the Federal Trade Commission.

Assistant Professor Brayton Wilson was appointed to the staff for the year 1934-35 to substitute for Professor Henry E. Hoagland, who was on leave of absence.

Assistant Professors Kenneth Dameron and Donald C. Power were promoted to Associate Professorships. Instructor E. F. Donaldson was advanced to an Assistant Professorship.

Economics Department

This Department suffered an irreparable loss in the sudden death of Professor Matthew Brown Hammond on September 28, 1933.

Professor Hammond came to the University in 1904 and was, until the time of his death, the Department's most outstanding scholar. As Chairman of the Department, he made inestimable contributions to the development of

the personnel and of the program. His election to the Presidency of the American Economic Association, the highest honor which can come to an Economist, conferred a great distinction on this University. Those of us who knew him best, know that no one can ever take his place.

Professor Arthur Salz, formerly of the University of Heidelberg, was in residence in the year 1934-35. It is most gratifying to know that Professor Salz will continue as a member of the staff throughout the year 1935-36.

The greatly increased student enrollment, particularly in elementary courses, and leaves of absence granted staff members, necessitated the addition of a number of instructors to the staff. James A. Coble, David Harrison, and William B. Shaffer were appointed to Instructorships January 1, 1935.

Mr. J. D. Blanchard, an Instructor, resigned in 1934.

A number of the staff were promoted in rank during the biennium. Assistant Professors Ralph L. Dewey and Clifford L. James were advanced to Associate Professorships. Miss Alma Herbst was promoted to an Assistant Professorship and C. J. Botte to an Instructorship.

Geography Department

Professor C. C. Huntington retired from the Chairmanship of this Department October 1, 1934. The first Chairman of this Department, Professor Huntington has done more than any other individual to bring the personnel and program to the present state of effectiveness. Fortunately, Professor Huntington has continued his teaching services and the Department profits greatly by his cooperative spirit and sound counsel.

Associate Professor Guy-Harold Smith succeeded Professor Huntington in the direction of the Department.

School of Journalism

On July 1, 1934, Professor Joseph S. Meyers retired from active service and was appointed to an Emeritus Professorship.

Professor Myers served the School of Journalism for twenty years. At the time when Professor Myers came to Ohio State, Journalistic education was in its beginnings. As a pioneer in the field, his contributions have been noteworthy not only to the Ohio State program but to the cause of Journalistic education in America.

Associate Professor James E. Pollard was appointed to the Acting Directorship of the School upon Professor Myers' retirement. Professor Pollard has shown high effectiveness in meeting the heavy responsibilities of this office.

Sociology Department

Few changes have occurred in the Senior staff of this department. Mr. E. S. Burdell, an Instructor, resigned to accept an Assistant Professorship in Sociology in the Massachusetts Institute of Technology. Mr. Lloyd A. Cook was promoted to an Assistant Professorship.

School of Social Administration

Mr. R. G. Paterson, who for a considerable term of years had served the School, was appointed to a part-time Professorship in Social Administration. Professor Paterson has continued, as in the past, to devote a major part of his time to the Ohio Public Health Association, of which he is Director.

Mr. Stockton Raymond has recently been appointed to a Professorship in

the School. Professor Raymond has had a wide experience in the administration of social agencies, and his appointment will materially strengthen the program of the School.

Mr. Bernard Mason, Instructor in Group Work Courses, resigned in the Summer of 1933. His resignation has seriously handicapped an important area of our training program.

Bureau of Business Research

Budgetary limitations and staff resignations have greatly reduced the Bureau staff.

Professor Lawrence H. Grinstead resigned to accept a position in the Research Department of The Armour Company. Professor Willis Wissler, who gave one-half his time to the Bureau, resigned to accept a position with the Federal Emergency Relief Administration. Assistant Professor H. G. Brunsman resigned in January, 1935, to accept a Washington post.

With the development of the cooperative arrangement with the Brookings Institute, Mr. James Yocum was appointed to an Assistant Professorship in the Bureau.

Miss Viva B. Boothe was advanced to a Professorship.

Department of Commerce Extension

This department, like the Bureau of Business Research, suffered a substantial budget reduction in the biennium. As a result no new staff members were employed to fill the vacancies resulting from resignations.

Assistant Professor Weldon Jones resigned to become the Auditor-General of the Philippine Islands. Instructor J. Wayne Ley resigned and was appointed to an Instructorship in Business Organization, which position he subsequently relinquished to accept a position in the Federal Service.

Mr. William E. Dickerson was promoted to an Associate Professorship.

The College Student Placement Service

During the biennium, the college student placement (employment) service has been completely reorganized under the auspices of Mr. Keith Roberts, who has had general direction of this enterprise. Every effort has been made to establish cordial relations with Ohio Industries in the effort to serve them and to place our graduates in promising positions. Many employers and personnel department representatives have visited the campus, and our office has made a careful study of personnel criteria regarded as important by individual employers.

Mr. Roberts has interviewed personally every member of our graduating classes and has carefully tabulated significant educational and commercial experiences. This data has proven invaluable in personalizing this important phase of our work.

The effectiveness of the student placement program would be greatly increased if a modest travel fund were made available and the director of this service might visit Ohio Industries in the general promotion of the placement program.

STUDENT MOTIVATION

Throughout the two-year period, we have continued our efforts to stimulate students of unusual promise. Individual student conferences have been promoted under the general direction of the Junior Dean and many other Faculty

members have worked individually with students of marked ability. Doubtless, much more effective work would have been done were it not for the unusually heavy Faculty teaching loads and heavy class enrollments.

It is to be hoped that in the relatively near future, we can relieve somewhat the pressures under which our Faculties are working and thus release energies so much needed for work with individual students. We realize that one of the outstanding problems of modern education is to reach superior students and to bring to them some realization of their scholastic opportunities.

We have continued the publication of an annual honors list and the practice of granting degrees with honors and with distinction in particular major fields of work. During the past year our Departmental Faculties have been especially diligent in bringing these honors and distinctions to the attention of superior students and have urged them to strive for higher scholastic achievements.

The Junior Dean has also devoted much time and energy to work with inferior or ill-adapted students. In this work, he has had the cooperation of the Faculty and of other college administrative officers. The Student Health Service and the Department of Phonetics have rendered valuable cooperation and assistance, where student difficulties were based on auditory and other physical disabilities.

OUTSTANDING COLLEGE NEEDS

Instruction

As soon as conditions permit, the following instructional needs should have serious consideration. The program of the Department of Sociology would be greatly strengthened by the addition of a Professor of Social Anthropology. This field of work is basic in the training of Sociology majors. Moreover, students majoring in Education, History, Economics, and Geography would profit immensely by strong fundamental work in Social Anthropology.

Additional teaching personnel is badly needed in the School of Social Administration. With the present staff, it is not possible to offer the minimum program established by the American Association of Schools of Social Work. Particularly pressing are the needs for Professors of Group Work, Medical Social Work, and Public Welfare Administration.

The Department of Commerce Extension is in great need of such additions to teaching personnel as will enable it to offer much demanded work in Business Law, Statistics, and Retail Merchandising. Each of these fields of work when offered in the past has resulted in large and interested student enrollments.

The Bureau of Business Research needs additional personnel if it is to respond to any fair share of the requests for service coming from Ohio Industries. Additional funds are also badly needed if the Bureau is to provide more adequate facilities for the encouragement and support of Faculty and Student Research.

Travel by Staff Members

The laboratories of this college are found in business and social institutions. Constant and intimate contact with these institutions is imperative if we are to attain maximum effectiveness. While our staff members have been most generous in the expenditure of their private resources for the travel necessary to maintain desirable contacts, nevertheless we have suffered from

limitations in this area of our work. Increased funds for travel represent a real and growing college need.

Equipment

Very few additions or replacements to equipment have occurred within the past two years and much essential college equipment is badly worn or obsolete. Various laboratories such as those in Accounting, Economics Statistics, and Social Statistics are badly in need of new equipment to replace obsolete and worn-out machinery and to provide facilities for rapidly growing student enrollments.

The Department of Geography lacks much essential equipment, particularly maps and charts. Our collections are too meager for effective teaching and Faculty members doing serious research work are frequently forced to work in other Universities because of the limitations of our own map and chart collections.

The Need for the Completion of the Commerce Building

One of the outstanding college needs is for the completion of the Commerce Building. This building was outgrown before it was completed. At the present time, Commerce classroom needs far exceed the capacity of the building and classes are assigned to scattered rooms over the University campus. This is a special disadvantage where effective teaching calls for special equipment, such as maps, exhibits, etc. Laboratory space is inadequate and sections are too crowded for effective work. The College library reading room space is too small to accommodate the students who must use this room for assigned readings. The situation as far as the provision of adequate office space for members of the instructional staff is particularly bad. The majority of our instructors are crowded into combination offices where conditions are bad both from the standpoint of research and of student conferences.

The attached reports of the chairmen of the departments located administratively in the College set forth the major achievements of the year, programs in progress, and record the outstanding departmental needs.

Department of Accounting

JACOB B. TAYLOR, Chairman

Due to the restricted University budget during this biennium, the size of the staff was reduced by one instructor and one assistant. The student registrations in Accounting did not decline further from the low point reached in the year 1932-1933 but instead increased slightly in each of the years of this biennium. The result of this situation was to increase the teaching loads of most of the members of the staff. In addition, the size of classes was greatly increased and the net result has been an inevitable lessening of the effectiveness of the teaching efforts. The most acute point in this regard was reached during the Spring Quarter, 1935.

Professor Hermann C. Miller was elected President of the Ohio Society of Certified Public Accountants for the year 1934-1935, after having served as a member of the Board of Directors of that organization for several years.

Mr. Walter D. Wall was elected Treasurer of the American Society of Certified Public Accountants for the year 1934-1935. Mr. Wall has served this organization for a number of years as a member of the national Board of Directors.

Associate Professor J. B. Heckert served one term (1934) as a member of the national board of directors of the National Association of Cost Accountants.

Assistant Professor R. S. Willcox served as President of the Columbus Chapter of the National Association of Cost Accountants during the year 1933-1934. Professor Willcox in 1934 acted as consulting accountant for Ohio Production Units, Inc., an agency of the Ohio Relief Commission.

Professor J. B. Taylor was elected Vice-President of the American Association of University Instructors in Accounting in December, 1933, for a term of three years at the end of which he will automatically become President of the Association. Professor Taylor also served the Ohio Department of Liquor Control as consulting accountant during 1934-1935.

Mr. D. M. Shonting served as a member of the Committee on Municipal Accounting of the American Association of University Instructors in Accounting during 1935.

This list of contributions of the members of the staff is indicative of the efforts of the staff to further the development of the profession and of the recognition of the profession in various ways of the value of those efforts.

In 1934 and again in 1935 the Department of Accounting presented a coordinated series of fine radio talks on the relation of accounting to activities of the investor, producer, consumer, management, and the government over radio station WOSU.

Members of the staff served as members of college and inter-college committees during the biennium. Such service is a part of the general contribution of the department to the furtherance of the work of the college and the University.

The biennium just closed was one of the most crucial in the history of the University and the resulting curtailments in budget reflected themselves in the restricted operations of the department. However, the members of the staff have given full measure of performance to the work of the University while attempting to carry on research and professional activities. The rigors of this depression period have prevented the department from realizing the fullest rewards for its efforts expended but the results can be truly said to be satisfactory, none the less.

Department of Economics

A. B. WOLFE, Chairman

The main feature of the history of the Department of Economics for the past biennium has been the struggle to do its work with a depleted staff and in 1934-35 a greatly increased student enrollment. Beginning in 1933 the Department was deprived of its five graduate assistants who helped in the paper work of large classes. In September, 1933, came the death of Professor Hammond. There followed various leaves of absence for staff members who went into government work. These included three of the best teaching assistants, Levine, Horne, and Mautz, all of whom resigned in 1934. Included also were Professor Hayes, absent from April 1934 to October 1935, Associate Professor James, for the year 1934-35, Associate Professor Dewey, for the Winter, Spring, and Summer Quarters of 1935, and Instructor Stitt, from January 1934 to October 1935. These absences necessitated difficult adjustments of teaching schedules and the starring of certain courses.

In January, 1935, a sudden increase in enrollment, making it necessary to have a total of eighty-two sections of the elementary courses, rendered some additions to the staff imperative. Three new instructors, and several new teaching assistants were taken on.

In 1933-34 the Department was compelled to greatly increase the teaching load and to enlarge the size of sections. Since the load was already heavy, and since there were now no readers, and since the places of the experienced teachers on leave of absence had to be filled (in so far as they were filled at all) by inexperienced assistants, the quality of the work suffered.

Under these conditions, work other than instruction naturally suffered even more. Few members of the Department have had time or energy for publication or research. Publications, few in number, by members of the Department during the biennium, have in most cases been the fruit of research carried on before the biennium began.

Perhaps the most satisfying feature of the situation has been the fact that the Federal and State governments have wanted the expert service of so many Departmental members. These services should be a matter of record.

Professor Hayes — Chief of the Division of Economic Research, Bureau of Foreign and Domestic Commerce.

Professor James — Senior Economist, Federal Tariff Commission.

Professor Dewey — Statistical Expert, Electric Rate Survey, Federal Power Commission.

Miss Stitt — (1) Chief of the Minimum Wage Division, Welfare Department, State of Ohio.

(2) Research Expert, Woman's Bureau, United States Department of Labor.

In addition to the above, Professor Smart has continued to serve, in the capacity of statistical expert, the State Tax Commission.

The Chairman of the Department continued, until January, 1935, a member of the Social Science Research Council. He was for two years Chairman of the Committee on Research of the American Economic Association, was a member of the A. A. U. P. Committee investigating the University of Pittsburgh, and will complete in December three years' service as Associate Editor of the American Economic Review. The Chairman and other members of the Department have also cooperated with the Executive Committee of the Economic Forum, a newly organized association of the leading Columbus business men, in securing prominent economists as speakers before that organization.

During the current year the Department has given much thought to curricular revision, much needed in view of the changing economic situation, and has made recommendation for highly significant course changes and additions for the next biennium.

During the year 1934-35 the Department has profited by the services of Professor Arthur Salz, formerly of the University of Heidelberg, Germany. Professor Salz's service to us was made possible through the good offices of the Dean of the Graduate School and financial support by the Carnegie and Rockefeller Foundations.

Department of Business Organization

HAROLD H. MAYNARD, Chairman

During the period covered by this report, the Department of Business Organization has made considerable progress in several directions. Members of the Department have devoted much time to developing their teaching activities with the thought that effective classroom teaching is the primary objective of departmental activity. Most of the members of the Department have, however, found it possible to add to the knowledge of business methods and problems by carrying on research activities and by developing an increasingly large number of contacts with business men and with certain organizations of business leaders. The details of the research contributions will be found in the report of the Dean of the Graduate School.

The Department has participated in the development of the Master of Business Administration degree which award has been conferred upon a considerable number of persons. During the biennium certain adjustments have been made in the teaching program of the Department which make it possible to offer a rich variety of courses on the level of beginning graduate work and which, when combined with certain undergraduate courses, result in an attractive program for men and women wishing to secure training in business organization beyond the baccalaureate level. It is believed that as the value of this type of training becomes recognized an increasingly large number of students will be enrolled in this work. Certain members of the Department have been particularly active in recent months in studying the relation of university training to opportunities for service in municipal, state, and federal governmental agencies.

The Public Administration curriculum of the College has been revised in such a way as to draw upon the offerings of the Department of Business Organization to an increasing extent. It is believed that the University may serve public agencies in a very significant manner through the development of this program of work.

In September, 1934, Dr. H. E. Hoagland, Professor of Business Finance, was granted leave of absence to become associated with the Federal Home Loan Board in Washington, D. C. Later in the autumn he was appointed a member of the Board and as such has rendered distinguished service to the financial interests of the country through his assistance in shaping the policies of this important governmental organization.

Professor William M. Duffus was granted a leave of absence for the year 1934-35 to serve on the Staff of the United States Tariff Commission.

Mr. A. L. Odebrecht, an Instructor in the Department, has been absent on leave for the past year. His work is with the Federal Trade Commission.

Dr. T. N. Beckman, Professor of Marketing, has been associated with the Bureau of Census as a consulting expert in wholesaling during most of this biennium. Because of his direction of the wholesaling section of the Census of Distribution of 1933 and the Census of American Business for 1933, he has been able to make definite additions to the knowledge of wholesaling problems and statistics.

Department of Geography

GUY-HAROLD SMITH, *Chairman*

The enrollment in courses offered by the Department of Geography increased very rapidly, especially in the second year of the biennium. This increase was due in the main to the increased Freshman enrollment in the year 1934-35, and to increased enrollments from the College of Education. This increase in the student load placed heavy burdens upon the Faculty and it became necessary to increase the teaching loads of staff members and to increase the number of students per section. It is to be hoped that teaching loads may be reduced to more reasonable levels and the Faculty thus be given more adequate opportunities for constructive research.

Professor C. C. Huntington retired from the chairmanship of the Department on October 1, 1934, and was succeeded in this position by Associate Professor Guy-Harold Smith.

Professor Huntington was the first Chairman of the Department and took the leadership in the evolution of its program. The Department wishes to acknowledge its indebtedness to Dr. Huntington for his rich contributions to the life of the Department.

The entire course program of the Department of Geography was completely revised during the biennium. A departmental committee on revision was assisted by advisory committees representing the Colleges of Arts, Agriculture, Engineering, and Education and various departments of the College of Commerce and Administration.

As a result of this searching inquiry, including careful comparisons with the course offerings of other leading universities, certain courses were abandoned, others were combined and in some instances substantial bodies of material were shifted from one course area to another. The effect was to produce a more compact and carefully articulated program and to reduce course content duplication to the minimum.

The Department is badly in need of additional equipment, particularly maps and charts. Equipment limitations are serious obstacles to effective teaching and research.

Department of Sociology

F. E. LUMLEY, *Chairman*

This biennium has been a very strenuous one for the Department of Sociology. For one thing, the Department found itself confronted with a greatly increased enrollment in the elementary area, in the autumn of 1934. The largest registration ever known for 401 was slightly in excess of 300, and the average has been around 250. In the fall of 1934, over 400 students entered our beginning sociology. Of course our staff was very inadequate to care for this increase.

Again, certain members of our department had taught during the Summer Quarter and, being unable to find time off during the regular year, had accumulated five quarters on the books. Since pay for extra service was not available, we made a start at trying to liquidate this arrearage—which added to the burdens of those on duty.

In the third place, one of our staff, Professor P. P. Denune, was called upon to act as chairman for Social Administration for the Spring Quarter,

1935; and this service naturally took him out of much that the Department of Sociology was called upon to do.

Dr. L. A. Cook has served as chairman of the Graduate School Committee on special lectures for the Summer Quarter of 1935.

Dr. F. E. Lumley has been a member of the Arts College Executive Committee for two years, and has served also on the Library Council and the Committee managing the radio broadcasting.

School of Social Administration

CHARLES C. STILLMAN, *Chairman*

The School of Social Administration has been called upon during the period covered by this report, to meet the greatest demand for its services since its founding. The nation-wide depression, with its attendant unemployment for many thousands of persons, has created a relief problem of enormous magnitude and a greatly increased need for trained social workers. Consequently, students in rapidly increasing numbers have enrolled in the School. The teaching facilities have not been expanded in keeping with the increased enrollment; hence the size of classes has been enlarged and heavier burdens have been carried by the teaching staff.

In addition to caring for the increased number of regular university students, the School has been called upon to furnish special instruction to groups not regularly on the campus. During the summer of 1934 the Ohio Relief Commission used the facilities of the School for some special technical training for several hundred of the staff members. During the past winter and spring quarters the Federal Emergency Relief Administration of the State has sent to the School several groups of carefully selected graduate students for advanced training in social work. In order partially to compensate the University the Relief Commission has paid the salary of an added member of the School teaching staff.

In spite of these extra teaching loads assumed by the School staff, its members have maintained wide contacts with many of the social agencies of the city, state, and nation. Professor C. C. Stillman, Director of the School, has been on leave during most of the past year serving as regional representative of the F.E.R.A. for the states of Ohio, West Virginia, Kentucky, and Tennessee, and as Director of the Relief Administration in Ohio. Professor W. J. Blackburn made a valuable contribution to the study of housing conditions in the slum areas of Columbus previous to the establishment of the Columbus Housing Authority, and he is now serving as technical research advisor for the Authority.

During the past year much time and thought have gone into a study of the School's teaching program with special reference to bringing it into line with the training standards maintained by the leading schools of Social Work throughout the country. As a result of this study a revision of the program is in process, which, if adopted, will greatly enrich the course offerings of the School and enable it to render a greater service to the State.

Mention should be made of publications by Dr. James E. Hagerty and Miss Elsie Voorhees Jones, a description of which will be given in the report of the Graduate School.

Department of Commerce Extension

THOMAS L. KIBLER, *Director*

In spite of the 50 per cent reduction of the personnel attached to this Department, the extension service has been projected vigorously and effectively during the past biennium. During the academic year 1933-1934, 42 one-quarter evening courses were offered, the same being distributed among 11 cities as follows: Canton, Columbus, Findlay, Fostoria, Lima, Mansfield, Marion, Newark, New Philadelphia, Sandusky, Toledo. The total number of one-quarter registrations was 933, an average of 22.7 per class for the three quarters.

During the academic year 1934-1935, 40 one-quarter classes were offered, the same being distributed among 10 cities as follows: Canton, Chillicothe, Columbus, Dayton, Findlay, Fostoria, Lima, Mansfield, Marion, Mt. Vernon. The total number of one-quarter registrations was 865, an average of 21.6 per class for three quarters.

The majority of the courses offered now run through the three quarters, although in some cases the same class group is carried through the year by combining a two-quarter course with a closely related one-quarter course. This is in contrast to the earlier history of the Department when very few classes were continued through the year with the same student groups. Considering the facts, (1) that the student-body is mature (the ages ranging from 21 to 65 and averaging about 32), and (2) that all students are employed during the day and are not subject to any compulsion to attend classes or continue the work during subsequent quarters, it is considered that the mortality is not high. The larger percentage of students who enter the second quarter's work, continue through the third quarter. For instance, the enrollments for the first, second and third quarters respectively for the academic year 1934-1935, were as follows: 367, 262, 236. When it is stated that 12 courses were offered during the spring quarter, as compared with 14 during each of the preceding quarters, it is clear that the majority of those students who returned for the winter quarter, were sufficiently interested to continue through the three quarters.

The qualifications of extension students remain high. More than 18 per cent are college graduates, and nearly half have done college work. On the other hand, a large number have had their first experience in the atmosphere of the college class room. An important constituency is that which looks to the Department for training in areas not covered by the specialized curricula of their college days. Others find that the new order of business, and the new obligations of citizenship impose responsibilities upon them that require a better understanding of the functioning of the newer economic order, of the intricate problems that arise in connection with the relationships of business and government, and of the business techniques that are undergoing rapid change.

We have engineers in our classes who want instruction in accounting, finance, and business organization to enable them to handle problems of management; bankers and business men who desire to study the implications of new legislation dealing with monetary and banking procedure; treasurers of industrial concerns who want to familiarize themselves with the new laws and court decisions relating to taxes and the preparation of income tax returns; lawyers who need a more technical knowledge of accounting and finance in handling industrial and utility cases; sales managers and those who aspire to

be such, who want to study the latest methods of organizing sales forces and territories and analyzing markets; and importers and exporters who are concerned with the developments that are taking place in world markets. Then there are many who want to inform themselves about the meaning of the great economic and political events of the day. They are vitally interested in the stupendous recovery program, with all its ramifications. They want to qualify themselves to discuss the issues intelligently. Many of them even find it necessary to readjust themselves to the new requirements of business as a condition to holding their jobs, or finding jobs. With a small staff, the Department of Commerce Extension is attempting to meet such varied demands as the above.

A list of centers in which courses are actually offered, does not indicate the extent of the service. For instance, one class in Canton drew students from the following other cities: Alliance, Atwater, Dalton, Dover, Hartville, Justus, Louisville, Massillon, Middle Branch, Minerva, Navarre, New Philadelphia, Orville, and Smithville. Classes in Columbus drew students from 18 or more cities and towns surrounding Columbus. In 1932, before the reduction of the staff, the Department offered 25 courses each quarter, these courses being distributed among 13 centers; but the classes drew students from 96 cities and towns, a number of students driving in from localities 50 or more miles from centers.

The Department is following a consistent policy of high-grade university instruction, preferring to limit its activities rather than to sacrifice its standards. The three men who remain on the staff have now had long experience in this work, and are rendering to the University and the State a unique service of high merit. Many expressions to this effect are constantly coming in from the adult constituency.

School of Journalism

JAMES E. POLLARD, *Acting Director*

During the biennium, 1933-1935, the School of Journalism has seen a number of changes, besides extending its activities somewhat. The period also marked the retirement from active teaching, after twenty years of service, of Professor J. S. Myers, the director. A summary touching the high spots of the biennium follows:

Enrollment.—The number of students electing work in journalism continues to show a slight increase, the total in any one quarter being approximately 280 different course registrations.

Graduates.—During this period the number of degrees in journalism granted was approximately 75, the number being slightly smaller in 1935 than in 1934.

Curriculum.—In line with changing conditions and to meet current needs, a study was made of the journalism curriculum with the result that several new courses were recommended for adoption, besides changes in existing courses. The new courses recommended include:

- a. Newspaper Circulation and Promotion.
- b. The Newspaper Library.

In addition, the departmental library has been overhauled, re-indexed and enlarged through the purchase and acquisition of some 50 recent books.

The departmental gallery of photographs of noted American journalists has been enlarged also through the personal gift of autographed photographs of a dozen leading American newspaper men.

Professional.—The School has continued to be a focal point for the profession in the state of Ohio as the following activities show:

- a. The Ohio Journalism Hall of Fame, sponsored by the School, now contains the names of 25 men elected to membership therein.
- b. The School has also continued to—
 1. Assist in arranging the annual conference of the Journalism Association of Ohio Schools.
 2. Sponsor the Blue Pencil Club, organization of newspaper desk editors of Ohio.
 3. Publish The Ohio Newspaper, only such printed publication in Ohio.
- c. Efforts have also been made looking to a closer working relationship with the Ohio Newspaper Association.

Service and Research.—Under the sponsorship of the School, various efforts have been fostered in this area. Three of them deserve mention here:

- a. With F.E.R.A. assistance, copies have been made of the check lists of Ohio newspapers in the newspaper library of the Ohio Archaeological and Historical Society. These copies have been divided among the Society, the University library, and the School.
- b. An index of the School files of *Editor & Publisher*, has been begun in a similar way.
- c. Likewise, a compilation has been made of Ohio statutes relating in any way to newspaper publication. A request is now pending for the publication of this material for the use of students, the press of the state, and state and local officials.

Personal.—Members of the teaching staff have continued their writing and professional activities in the American Association of Teachers of Journalism, the Association of Schools and Departments of Journalism, and the Ohio Newspaper Association meeting. They have presented a number of papers at these meetings. Articles by members of the staff have appeared in *Editor & Publisher*, and in *The Quill*, professional publications. One member of the staff is the co-author of a recent textbook in the field.

Bureau of Business Research

SPURGEON BELL, *Director*

The research program of the Bureau of Business Research falls into three fairly definite categories as follows: (1) Collection of basic economic and business data for the State and their presentation currently; (2) Analysis, interpretation and publication of basic economic data gathered by other state or federal agencies but not made available in usable form until analyzed and published by the Bureau; (3) Special investigations and the publication in monograph form of such special researches.

In the field of the collection and presentation of basic economic and business data, the Bureau has three continuous projects which are reported in releases to cooperators and in the Bulletin of Business Research monthly. These projects are: Employment in Ohio, Sales and Outstandings of Ohio Wholesale Grocers, The Hotel Business of Ohio. Two new projects of this nature are in the process of being developed and one is being expanded. The

new projects are: An Index of Retail Sales in the Metropolitan Areas of the State—in cooperation with the U. S. Department of Commerce, the Cost of Living Indexes and Indexes of Retail Prices in Metropolitan Areas of the State—in cooperation with the U. S. Bureau of Labor Statistics. A cooperative arrangement has been entered into with the Bureau of Labor Statistics for the collection of employment, payroll and man-hour data from Ohio industries which adds payroll and man-hours worked information to the information on employment which the Bureau has previously gathered.

In the field of analysis, interpretation and publication of basic economic data gathered by other agencies one study has been published and three are in process. "Employment and Payroll Fluctuations in Ohio, 1926-1932," by H. G. Brunzman, was published last year. The studies now in process are: "The Tendency Toward Concentration and Decentralization of Ohio Industry, 1899-1934," "The Distribution of Ohio Workers by Wage Rate Classes, 1914-1934," by Dr. Boothe, and "The Statistical History of Construction Activity in the Cleveland Area," by H. G. Brunzman.

The special researches (carried on by graduate students and staff members) completed and published since July 1, 1933 are:

I. Publications issued since July 1, 1933:

(a) Current publications:

- (1) Bulletin of Business Research
- (2) Sales and Outstandings of Ohio Wholesale Grocers
- (3) Employment in Ohio
- (4) Hotel Industry in Ohio

- (b) Special publications (published by the Ohio State University Press)
- Consumers' Reactions to Special Sales in Columbus Department Stores, by Ralph B. Alspaugh, October, 1933
 - Distribution and Use of Bituminous Coal in Columbus, Ohio, by H. W. Widener and A. H. Dierker, October, 1933
 - Operating Results of Ohio Wholesale Grocers—1932, by W. D. Hooper, October, 1933
 - Barter Scrip and Production Units as Self-Help Devices in Times of Depression, by L. H. Grinstead and Willis Wissler, November, 1933
 - Expenditures and Apparel Buying Habits of Ohio State University Students, by J. C. Yocum, January, 1934
 - Employment and Payroll Fluctuations in Ohio, 1926-1932, by H. G. Brunzman, January, 1934
 - Operating Results of Ohio Wholesale Grocers, 1933, by Dave Lowery, April, 1934

II. Articles published since July 1, 1933 (Appearing in Bulletin of Business Research):

- Progress Under the National Industrial Recovery Act, by L. H. Grinstead, July, 1933
- Trends of Passenger Car Sales in Ohio, by H. G. Brunzman, September, 1933
- Retail Food Prices in Ohio Cities, by H. G. Brunzman, October, 1933
- Provision of NRA Codes on Statistical Reporting, by Spurgeon Bell
- Code Provisions Against Selling Below Cost, by Spurgeon Bell, November, 1933
- Operation of Civil Works Administration in Ohio, by H. G. Brunzman, December, 1933
- The Attitude of Insurance Companies in Accepting Large Amounts of Single-Premium and Annuity Contracts, by Edison L. Bowers, January, 1934
- A New Deal on Sales Below Cost, by Spurgeon Bell, March, 1934
- Ohio's Taxation Problems, by L. E. Smart, May, 1934
- Recent Workmen's Compensation Experience in Ohio, by Louis Levine, June, 1934

The Federal Housing Act and Building and Loan Association, by Spurgeon Bell, July, 1934
 Five Months of CWA and Relief Disbursements in Eight Ohio Counties, by Viva Boothe, April, 1934
 Changes in the Utilization of Labor and of Power Machinery in Relation to the Growth of Ohio Manufacturing Since 1899, July, 1934, by Viva Boothe
 The Construction Record of Ohio for the First Half of 1934, by Viva Boothe, August, 1934
 The Trend Toward Concentration in Ohio Manufacturing Since 1899, by Viva Boothe, September, 1934
 Changes in Wholesale and Retail Trade in Ohio and in the United States in 1933 from 1929, by Viva Boothe, October, 1934
 The Trend Towards Concentration of Ohio Manufacturing in Urban Areas, 1899-1931, by Viva Boothe, November, 1934
 The Trend in Bank Loans and Investments in Prosperity and Depression, by Viva Boothe, December, 1934
 Construction Activity in Ohio and Ohio Cities During 1934, by Viva Boothe, February, 1935
 Measures of Trade Expansion in 1934 in Ohio and in the United States, by Viva Boothe, January, 1935

- III. Projects completed but not published:
 Effect of NRA on Retail and Wholesale Trade in Ohio, by A. H. Chute
 Supplement to "Salaries and the Cost of Living in Twenty-seven State Universities and Colleges, 1913-1932" by Viva Boothe
 Operating Results of Ohio Wholesale Grocers—1934
- IV. Research Activities in Process:
 Statistical History of Construction Activity in the Cleveland Area Since 1899, by H. G. Brunsmann
 Personnel Fluctuations in Ohio Industry, by J. C. Yokum
 Effect of NRA on Industries in Ohio According to Size, by J. C. Yokum
 Wage Rates of Ohio Workers, 1914-1934, by Viva Boothe
 Problems and Trends in the Marketing of Ceramic Products, by A. H. Chute
 Concentration and Decentralization in Ohio Industry Since 1899
 An analysis of census data undertaken in cooperation with the Ohio Planning Board
 Plans are in progress for cooperation in three Federal Agencies for joint collection of basic economic data in Ohio as follows:
 (a) With the U. S. Bureau of Labor Statistics for the Collection of employment, payroll and man-hour data for the State and the major metropolitan areas.
 (b) With the U. S. Bureau of Labor Statistics for the Collection of family expenditure data for the 8 major metropolitan areas of the state.
 (1) as a first step in developing cost of living indexes for these areas and
 (2) to collect data for study of wage-earner consumption habits.
 (c) With the Department of Commerce for collection of Retail Sales in Ohio

Junior Dean

PROFESSOR C. WELLS REEDER

The current biennium marked the turn in the enrollment of freshmen in the college. The low point of admissions came in the autumn quarter of 1932. That year 370 freshmen started their college careers. For several years entering classes had been getting smaller. As the economic depression lengthened, fewer students enrolled in the college. The autumn quarter of 1933, however, showed a change. That class was 7.5 per cent larger than 1932. Then all records were broken by the 1934 class. This group was 60 per cent larger than the 1932 class.

The presence of such large classes of freshmen naturally developed some acute problems. First and foremost was that of teaching personnel. During the deepest budgetary cuts, teaching personnel had been affected seriously. When the numbers of students rose to unprecedented heights, then adequate teaching staff was not available.

Complicated with personnel was the problem of class sizes. The college has operated on the theory that the best teaching is done in small classes. This theory had to be abandoned in view of the number of students and availability of instructors.

Class size brought up the problem of rooms. It developed that there is a real shortage in the University in the number of rooms available for class instruction, as well as in the number of seats available in the present rooms. Crowded rooms tested both the interest of the students and the effectiveness of instruction.

These and other problems are well-known to all members of the administration and teaching staff. Every effort was made to modify the situations so as to minimize the inconveniences and to keep instruction on a level as high as possible.

The freshman classes of 1933 and 1934 showed a material change over previous classes in the quality of their high school preparation. Substantially 80 per cent of the students in these classes came from the upper two-thirds of their high school classes. While this percentage represents a gain for the college, yet it is below the university average for these classes as a whole.

In performance on the intelligence test, the class entering the autumn quarter 1933 reached the peak in its scores. The median percentile score for the class was 73. The class of 1934 was not quite so good. Its median score was 69, the same as the class of 1932. As viewed over a period of years, the results of the intelligence test have given some credence to the theory that as the depression continued and classes decreased in size, intelligence test scores rose. Then, as the depression lifted, and classes increased in size, intelligence test average scores decreased. It appears that some correlation exists between intelligence and economic survival.

The academic performance of these two freshman classes is worthy of note. The records show that it is practically impossible for any group to combat the tendency to fixed grading patterns. Studies made of the classes from 1930 to 1934 showed that grades and point ratios have remained practically stationary, even though intelligence has increased and a greater proportion of upper ranking high-school pupils are found in the classes. This situation was discussed in an article by the Junior Dean, published in *School and Society*, September 22, 1934.

The quartiles for the point ratios of the classes entering 1933 and 1934 are shown in the following table:

CLASS ENTERING	END 1ST QUARTER			END 3RD QUARTER		
	Q1	M	Q3	Q1	M	Q3
1933.....	1.66	2.12	2.62	1.90	2.20	2.72
1934.....	1.52	2.05	2.55	1.76	2.19	2.67

These points show that, at the end of the first quarter for the 1933 class, 75 per cent had point ratios above 1.66; 50 per cent had point average above 2.15; and 25 per cent were above 2.62. From the table, a similar record may

be read for the group completing one year's work in the college. By observing the record of the 1934 class, it is clear that on every point ratio, the quartile points are lower than the 1933 ratios. The class of 1933, however, did not equal the 1932 group. Increased numbers in these classes, undoubtedly, meant the presence of some poor college prospects and pulled the averages down.

Another feature of the period has been the financial problems of the college student. These have been not only personal but also centered in the families of the individuals concerned. The pressure for income to meet college expenses has been so acute that many students have suffered not only scholastic reverses but also health deficiencies. F.E.R.A. employment has been the solution of many hundreds of students. The cash earnings have been the margin between college education and unemployment.

In general the two-year period, 1933-35, has been spent very close to the students in the junior division. Hundreds of personal interviews have been held in which all sorts of problems have been discussed and solutions sought. From such contacts it is apparent that the economic and social dislocations of the period are having full play on the student body.

The period under review witnessed the inauguration of the sixth quarter rule. During the spring of 1932, the University Faculty voted that all students in residence for six quarters failing to attain a cumulative ratio of 1.7 shall be dismissed. The rule was applied to the class entering the autumn quarter, 1932, so became effective in June, 1934.

In the College of Commerce a warning letter is sent to every student who may be affected by this rule. A copy of this letter is sent to the parents, too. In addition, a personal conference is held with the student in which the two years' experience and results are discussed.

The effects of this rule are very thorough. The dismissals run high. Many petitions for reinstatement are filed and the cases are reviewed by the Executive Committee. Comparatively few requests merit favorable consideration. The case histories of these students have been so thoroughly worked up that judgments on them are made with a high degree of accuracy.

During the two-year period, twenty-one (21) sixth quarter dismissals were granted a readmission. By June 1935, three (3) had not yet enrolled; fifteen (15) had been dismissed again; three (3) had met the graduation standard (1.8) during their returned quarters of residence.

The observation is made that the 6th quarter dismissal procedure is one of the most scientific and sound personnel methods in use in the University. From experience with it, a freshman dismissal rule might be evolved that would be superior to present practices. The rules of the University dealing with probation and dismissals need an extensive overhauling.

An innovation in the college during the biennium has been the use of rating scales by various instructors. Some have used the form developed by the Junior Dean; others have made up forms suited to individual courses and designed to get at specific classroom problems. The use of the rating scales has been entirely voluntary on the part of instructors. The results have been turned over to them for their personal use and study. The following table shows the number of instructors concerned each quarter, the number of sections polled, and the number of students filling out the rating forms.

Quarter	Number of Instructors	Number of Sections	Number of Students
Autumn Quarter 1933.....	13	20	543
Winter Quarter 1934.....	20	32	1122
Spring Quarter 1934.....	6	8	225
Autumn Quarter 1934.....	16	32	1038
Winter Quarter 1935.....	17	32	825
Spring Quarter 1935.....	16	24	731

Research studies have been continued on various problems in the junior area. Time for this type of work, however, has been limited. Some assistance came the past year through F.E.R.A. appointments. The major emphasis has been a study of the distribution of grades in the introductory courses in the college covering the years, 1928-1934. The records show that during these years 39,211 grades have been given. They are distributed in the letter classification as follows: *

			Per Cent
A.....	3,701	(9.4)	D..... 6,729 (17.2)
B.....	10,009	(25.5)	E..... 3,042 (7.7)
C.....	15,430	(39.4)	Inc..... 300 (.8)

It will be observed that the college average runs very close to the so-called "normal" curve. Breakdowns have been prepared for the fourteen courses under study, and for the 101 instructors who have taught these courses during these years. An elaborate series of charts has been prepared which shows the statistics graphically. These charts have been used in conference with the departments and with individuals over the intricacies of the grading system. Much remains yet in the interpretation and use of these data.

An investigation was completed in the spring quarter 1935 on the study habits of students registered in Business Organization 401, Introduction to Business. An article dealing with the results is to appear shortly in *School and Society*.

Another piece of research work completed during this period was a Marketing Attitudes Test. This test was devised during the autumn and winter quarters 1933 and 1934 when the Junior Dean was teaching sections of Business Organization 700, Principles of Marketing. An account of its use was published in the *American Marketing Journal* for April, 1935.

A number of minor studies on various personnel problems were completed, the results of which were not printed, but were compiled as office memoranda.

In addition to the above studies, considerable statistical work has been done for the Committee on a General College, of which the Junior Dean is a member. The data under preliminary study dealt with the unsatisfactory scholastic records of freshmen and sophomores for the years 1928-1935. It is very clear that substantially one-fourth of the students in the junior area are not adapting themselves to the present educational program. As to what the University can or should do toward meeting the needs of this large group of boys and girls is the big question.

Space does not permit a discussion of other matters. Suffice it to say that the two years have been filled with intense activity, all centered around the education of the men and women registered in the junior division courses in this college.

COLLEGE OF DENTISTRY

DEAN HARRY M. SEMANS

Probably the most interesting item has to do with the Survey of the Dental Curriculum by the American Association of Dental Schools sponsored financially by the Carnegie Corporation. The survey committee composed of the deans of the Colleges of Dentistry of Toronto University, Louisville University, University of Pittsburgh, Northwestern University, and the Ohio State University, after four years completed the work March, 1935. A bound publication of 412 pages titled *A Course of Study in Dentistry* is now out of press. Using this suggested course as a guide the College of Dentistry, directed by Dr. W. W. Charters, Director of the Bureau of Educational Research, Ohio State University, commenced its local survey this spring. This survey is expected to finish its work sometime next year. Dr. Charters also has been adviser the past four years on the American Dental College Association's survey.

Also last March the Carnegie Corporation advanced \$15,000 for a survey of methods of teaching with the same committee and the same advisers. This survey will be carried through the next two years.

The research activities as presented by Dr. Paul C. Kitchin show an increase in this important part of the college's work. Since the last report the following publications have been made from the research laboratory of the Dental College.

- (1) A preliminary report on a mouth wash for the treatment of Vincent's infection. Paul C. Kitchin and J. B. Brown, *Dental Cosmos*.
- (2) Method to secure uniform thickness in sections ground on the Black type of apparatus. R. D. McFarland, *Journal of Dental Research*.
- (3) The limiting effect of coagulation on the action of germicides. Beatrice T. Horton and Paul C. Kitchin, *Journal of the American Dental Association*.
- (4) Some observations on enamel development as shown in the mandibular incisor of the white rat. Paul C. Kitchin, *Journal of Dental Research*.
- (5) Does pasteurized milk cause variation from the normal in the crystal structure of enamel formed during the period of the use of such milk? Paul C. Kitchin and R. D. McFarland, *Journal of Dental Research*.
- (6) Oral observations in a case of periodic agranulocytosis. Paul C. Kitchin, *Journal of Dental Research*.
- (7) Effect of oral treatment on the blood picture in aplastic anemia. L. S. Pettit, *Journal of Dental Research*.

In addition to the above the following papers have been read and will soon appear in the *Journal of Dental Research*.

- (1) Dens in dente. Paul C. Kitchin. Presented before the International Association for Dental Research, Chicago, March, 1935.
- (2) The relation of oral infection in a case of malignant neutropenia. J. H. Kaiser (in cooperation with C. A. Doan and P. C. Kitchin). Presented before the International Association for Dental Research, Chicago, March, 1935.
- (3) Observation on the treatment of ten cases of periodontoclasia with special reference to the use of autogenous vaccines and surgical intervention.

J. R. Fouré and G. D. Lose. Presented before the International Association for Dental Research, Chicago, March, 1935.

Also a commercial cooperative project with the Procter and Gamble Company has been carried out by Dr. Kitchin, the final report being completed June 1, 1935. This work is entitled "The use of sodium alkyl sulphate as a detergent in tooth paste."

Forty junior and senior dental students were selected to carry through, in their own mouths respectively, a contrasting cleansing trial between soap and sodium alkyl sulphate. This procedure was supervised by Dr. Graham.

Research problems as having definite value in education were thus impressed on the minds of these students. Of those mentioned in the other projects, three, Fouré, Kaiser, and Lose, were dental seniors. The others were members of the faculty. Under the provision granted to superior dental students of double registration, in the Graduate School and Dentistry, graduate elective courses (research problems) have been well started during this biennium. Credits up to one-third value towards a master's degree can be earned. A number of dental students each quarter have been registered in such work, and the results are already showing in placements in dental dispensaries and graduate schools among our graduates.

ACTIVITIES OF THE FACULTY

Harry M. Semans, Dean

Vice-President of the American Association of Dental Schools.

Member of the committee on the Survey of the Dental Curriculum, also committee on methods of teaching, American Association of Dental Schools, both financed by the Carnegie Corporation.

Dr. Dick P. Snyder, Professor of Oral Surgery

1933

Rehwinkle Dental Society—Chillicothe, Ohio—Clinics

Hardin County Medical Society—Kenton, Ohio—Paper

Columbus Academy of Medicine—Columbus, Ohio—Paper

1934

Dayton Academy of Medicine—Dayton, Ohio—Paper

Columbus Dental Society—Columbus, Ohio—Paper

Muskingum Valley Dental Society—Zanesville—Paper

American Society of Oral Surgeons and Exodontists—St. Paul—Lecture, clinic.

American Dental Association—St. Paul—Clinic

Ohio State Dental Society—Columbus—Paper and clinic

Past president of the Ohio State Dental Society

Member of the Membership Committee, American Society of Oral Surgeons and Exodontists

Member of the House of Delegates of the American Dental Association for the past eight years

Member of the Federal Relief Committee, Ohio State Dental Society

Chairman of the Committee on Legislation and Dental Education, Ohio State Dental Society

Directed legislative activities in the successful passage of H.B. 145, which outlaws certain types of dental advertising, prohibits chain dental offices, etc.

Gave a series of lectures on Dental Health Education at Grant Hospital School of Nursing

Gave a series of lectures on Dental Health Education at University Hospital School of Nursing, which lectures are to be continued

1935

American Association of Dental Schools—Chicago, March 19—Paper

Dr. Clyde H. Hebble, Chairman, Clinic Committee, Ohio State Dental Society, 1934, and member Ad Interim Committee of same

Lectures

"Operative Dentistry—Principles and Practice" and clinic on "Casting Technique"—May, 1934—The W. D. Miller Dental Society, Mt. Vernon, Ohio (Journal, Ohio State Dental Society)

"Preparation for and Construction of Bridge Attachments in Vital Teeth." December 4, 1934. Northwestern Ohio Dental Society—Lima, Ohio

"Co-operation between the Dentist and Physician." October 2, 1934. Putnam County Medical Society—Ottawa, Ohio

"Bridge Attachments." February 26, 1935—Columbus Dental Society

Clinic

"Casting Technique and Cavity Preparation." May 7, 1935—Cleveland Dental Society, Cleveland, Ohio

Dr. Wendell D. Postle

1933

President, Columbus Dental Society

1934

Dayton Dental Society—Clinic

1935

Springfield Dental Society—Clinic

Dr. I. A. Bottenhorn, President, Franklin County Public Health Association

Addresses

Marion County Academy of Medicine—Marion, Ohio

Rehwinkel Dental Society—Chillicothe, Ohio

W. D. Miller Dental Society—Newark, Ohio

Papers

Ohio State Dental Society—Columbus, Ohio, November, 1934

Dr. Paul C. Kitchin

Dr. Kitchin attended the Buffalo meeting of the American Dental Association and presented there the publication listed as (3) in the foregoing list of research activities. The publication (5) was presented as a paper by him before the International Association for Dental Research in Chicago, March, 1933. The paper listed as (6) was presented as a paper by him before the above group in Chicago, March, 1934.

Dr. Kitchin served as chairman of the Research Section of the American Dental Association in St. Paul, Minn., August, 1934; as chairman of the Program Committee of the Ohio State Dental Society for the Columbus meeting in December, 1934.

At present Dr. Kitchin is occupying the following positions:

Member of the Program Committee of the Columbus Dental Society and the Ohio State Dental Society

Secretary of the Research Section of the American Dental Association

Vice-President elect of the International Association for Dental Research

Secretary and member in Council of the Columbus Section of the International Association for Dental Research

Assistant Editor, International Association for Dental Research Journal

Dr. H. V. Cottrell—President, Full Denture Society, 1933-34

Papers and Clinics

Full Denture Society annual meeting

Ohio District Dental Societies

Dr. Frank C. Starr

Papers and Clinics

West Virginia State Society, May, 1934

Eastern District Dental Society Kentucky—Ashland, February, 1935

Clinics at several Ohio district societies

Dr. H. S. Shumway

Gave a clinic November, 1934—Ohio State Dental Society

Dr. Earl G. Jones, Assistant Professor of Orthodontia

Elected Vice-president of the Ohio State Dental Society for the year 1935

Chairman, Educational Committee, American Association of Orthodontists

Member of Legislative Committee, Ohio State Dental Society

Papers at each annual meeting of American Association of Orthodontists

Adviser on study of the Dental Curriculum, American Association of Dental Colleges dealing with Orthodontics, being chairman of same

Dr. W. C. Graham, Professor

Chairman, Committee on Editorial Medal Award of the American College of Dentists

Presented a paper on same August, 1934, at the annual meeting of the American Dental Association in St. Paul

Acted as adviser on the study of the dental Curriculum American Association of Dental Schools dealing with personal hygiene, nutrition, mouth hygiene, oral prophylaxis, and preventive principles

Member of the Columbus Board of Health

Dr. Charles W. Strosnider, Assistant Professor

Clinics

American Dental Association—Chicago—August, 1933

Ohio State Dental Society—Columbus—December, 1933

West Virginia State Dental Society—Clarksburg, W. Va.—May, 1934

Eastern District Dental Society of Kentucky—Ashland—February, 1935

Southern Ohio Dental Society—Portsmouth—March, 1935

Activities

Delegate, House of Delegates, Ohio State Dental Society, 1934-35

Chairman, Program Committee, Columbus Dental Society, 1933-34

Chairman, Oral Hygiene Committee, Columbus Dental Society, 1934-35

Address before New Lexington High School Alumni Association, May, 1934

Dr. Robert D. McFarland, Instructor

Northwestern Dental Society—Lima—Clinic—1934

Columbus Dental Society—Clinic—December, 1934

Ohio State Dental Society—Clinic—November, 1934

Chairman, Ohio State Dental Society Clinic Committee

The following graduating seniors 1933-34 and 1934-35 were elected on scholarship and character to the Theta Chapter, Omicron Kappa Upsilon, honor dental fraternity:

1934

Jacques Robert Fouré

Wesley B. Hargraves

William J. Johannes

J. Henry Kaiser

Edgar D. Kelley

1935

John P. Baldridge

Marion McCrea

Kermit Houser

Evan Morgan

Colby C. Jackson

William Purcell

Edward Bernard

James Kreider

Of the forty dental colleges in the United States, at the present time, five require two years of Liberal Arts and three years of Dentistry; twelve require two years of Arts and four years of Dentistry; and the remaining twenty-three, one year of Arts and four of Dentistry. At the annual meeting of the American Association of Dental Schools, March, 1935, it was recommended that by 1937 all should be on the two-four basis. The College of Dentistry, Ohio State University, has so functioned since 1929.

COLLEGE OF EDUCATION

DEAN GEORGE F. ARPS

The Secretary's Office

The work of the Secretary's office centers around the counseling of students and the adaptation of the College curricula, both to the needs of students and to the demand for adequately educated teachers. The counseling of students covers all types of personal, vocational and educational problems of juniors and seniors. This responsibility is relatively heavy since the College of Education during the biennium has had the largest total enrollment, for the four quarters, of any College of the University and since it is the only College in which the number of juniors and seniors (including special and irregular students) exceeds the number of freshmen and sophomores. Problems of counseling are particularly complicated and time-consuming in the case of students who have transferred with advanced standing from other institutions. These constitute about one-fourth of our graduates.

The College office approved schedules for 2684 different individuals in 1933-1934 and for 2838 in 1934-1935, who, as reported by the Registrar, made up the total yearly enrollment of the College.

During the year, a large number of personal interviews are held with parents of students. The beneficial results of such conferences are obvious.

There is constant cooperation between the Secretary's office and the Psychological Clinic, University Health Service, Dean of Men and Dean of Women regarding many individual students who need these special services. Frequent conferences have been held with the State Department of Education on questions relating to the teachers' certificates granted to graduates of this College.

Because of the close interrelation of student counseling and curriculum problems the Secretary, with F.E.R.A. student assistance, has carried on numerous studies which have been based upon data available in the College office, and which contribute directly to more effective student guidance and curriculum administration. Typical of these studies are the following:

(a) Composition of Student Groups in the Various Teaching Fields in Terms of Percentile on Intelligence Test, Cumulative Point-Hour Ratio and Class Rank (21 page mimeographed report distributed to the faculty for their guidance); (b) Detailed Study of 781 Dismissals and 366 Readmissions in the College of Education from 1928 to 1933 Inclusive; Formulation of a Set of Principles to Aid the Executive Committee in Acting upon Petitions for Readmission (Conducted, in collaboration with the Junior Dean, at the request of the College Executive Committee); (c) Trends in the Distribution of Majors and of Minors Completed by Graduates of the College of Education 1924-1934; (d) Trends in the Intelligence Test Percentiles and Academic Point-Hour Ratios of Education Graduates 1927 to 1934; (e) Quality of Achievement in Freshman Courses Elected by Seniors; (f) Comparison of Effects of Different Foreign Language Requirements of the College Based upon Analysis of Records of Over 1000 Graduates; (g) Analysis of the Work and Problems of Students Transferred from Other Institutions; Quality of Work in this University Compared with Record Elsewhere.

The Secretary has also directed cooperative research in the same general field with the aid of graduate students in education, having supervised a group of Master's theses, such as—

"A Comparison of the Backgrounds of Education Students Entering Ohio State University in 1928 and 1934"

"Extent to Which Graduates of the College of Education are Teaching the Subjects for Which They Have Been Prepared"

The bearings of these studies upon the work of the Secretary's office is apparent.

Special attention has been given by the College during the past two years to developing individual programs for students who show superior promise as teachers. The Secretary has been actively engaged as a member of the General Committee on the Degree with Distinction which administers these programs and has acted as adviser for some of the candidates for distinction.

The Secretary has been a member, and Secretary of the University Personnel Council since its organization in the autumn quarter 1935. He is also a member of the University committee which is planning the orientation program for the autumn quarter 1935-1936 for new advanced transfer students.

The National Society for Curriculum Study has recently organized a Committee on Curriculum Materials for Teacher Training. The Secretary of the College is Chairman of this Committee which includes members from five other universities. This Committee will promote and coordinate research in certain significant phases of the teacher training curriculum.

Report of the Activities of the Junior Dean's Office

JUNIOR DEAN, LESTON L. LOVE

All activities of the Junior Dean's office have had as their motive a desire to help each individual student in any way possible with his problems—educational, vocational, personal. This involves adjusting the student to the University and university life, and of at least equal importance, adjusting the University to the student. These purposes are achieved directly through contacts with students, and indirectly through contacts with instructors, departments, and other areas, service on committees, and researches in the junior area.

The principal lines of activity of the office are summarized as follows:

I. Conferences with individual students

The office makes contacts yearly with between 2000 and 3000 individual students. All freshmen are scheduled for one 30-minute "get-acquainted" interview as early in the year as possible. Additional required conferences are arranged as circumstances dictate, while the remainder are voluntary, including many juniors and seniors who come to the office because of previous contacts with it. A statistical study of the records for one year shows that these contacts are divided almost equally among students of all levels of ability as measured both by grades and by percentiles. Conferences cover almost every conceivable type of educational, vocational and personal problems. Complete files of information are built up about each student through conferences and other available data.

II. Cooperation with the Educational Psychology area

1. In bringing about the establishment of an experimental remedial section (Psychology 411) to test the feasibility of a program designed to prevent failures before they occur. (Because of the success of the experiment additional sections are planned for entering freshmen)

2. In organization and readjustment of the regular remedial work
3. In working with Mr. M. E. Troyer in a significant study of factors predicting and influencing first quarter academic successes and failures.
4. In extending the use of and developing norms on tests found to be significant in work in the junior area

III. Service on the Junior Council

The general trend of its activities are described in the President's Report to the Board of Trustees for the year ending June, 1932 (pages 147 to 170) ; participated in numerous new projects which the Council has developed since the report was published.

IV. Assumed complete responsibility for the Survey of Education course. The course has been extended to three quarters and the subject matter completely reorganized

V. Stimulation of and assistance in the improvement of instruction in elementary areas through:

1. Use of a teacher rating blank in the Survey of Education class, which stimulated other areas to an extensive use of a similar device
2. Cooperation with Dr. W. H. Cowley in devising a teacher rating blank
3. Conferences with certain supervisors concerning strong points and defects in instructors and instruction in their areas
4. Extension of the *Em* credit principle in departments of the College

VI. Active participation in all phases of the work of the general committee on Degrees with Professional Distinction in Education, and, in addition, chairmanship of the advisory committees of four students and membership on the committees of two others

VII. Participation in the Selection and Guidance Committee. The Junior Dean is chiefly responsible for the organization and administration of a six-year research project which gives promise of significant contributions to this field

VIII. Served as adviser of the Education Student Council and through this group brought about:

1. A social survey of the College of Education students which showed the inadequacy of the University in meeting certain social needs for certain groups
2. Direct provision for certain social functions within the financial means of all students, and indirect provision for meeting some of the needs indicated by the social survey
3. The annual freshman scholarship dinner

IX. Served on the Executive Committee of the College.

X. Made a detailed study of 781 dismissals and 366 readmissions in the College of Education from 1928-1933 inclusive. A set of principles to guide the Executive Committee in handling dismissals and readmissions is being developed.

XI. Contacted parents of all freshmen with a general friendly letter, and about one-third of the parents with other correspondence. Between 40 and 50 parents visit the office each year

XII. Administered and interpreted special aptitude tests to students in the College of Education and to a significantly large number referred from other colleges

- XIII. Secured jobs for approximately 25 superior students many of whom would otherwise have had to leave school; secured Rotary Club and P.E.O. loans for several others
- XIV. Served on the Committee of the Personnel Council in planning revision of the physical examination and in developing procedures for making health information available to personnel officers
- XV. Cooperated with the General College Committee in developing certain procedures, in preparing 50 detailed case histories of students unsuccessful under the present set-up, and in sending 500 questionnaires to ex-students of the College of Education who did not progress satisfactorily while in residence
- XVI. Took the initiative in bringing about a readjustment of the norms on Form 18 of the O.C.A. Psychological Examination
- XVII. Assisted the University Examiner in selection of F.E.R.A. students and of boys for the cooperative dormitories
- XVIII. Carried out additional researches connected with the junior area and published articles on guidance
- XIX. Cooperation with University officials, departments and organizations in making available personnel data collected by the Junior Dean, and for obtaining significant data from other areas
- XX. Spoke before numerous groups, including: Ohio College Association, parents during Freshmen Week, Parent-Teacher Associations, University high school seniors, commencements, fraternities and clubs, church groups, and others; participated with the O.C.A. Committee on College Entrance, the Rural Guidance Committee of the National Vocational Guidance Association; member of the Boys' Work Board of the Central Y.M.C.A.; helped organize and conduct one section of the state Hi-Y conference.

Report of the Bureau of Educational Research

DIRECTOR, WALLACE W. CHARTERS

The Testing Division has been spending its time upon 37 projects. Among these the largest one has been the testing project which has been subsidized by the General Education Board, and has as its purpose the evaluation or measurement of the activities which the Progressive Education Association claims to carry on. This in turn is part of a larger project in which the 29 schools of the Progressive Education Association, in cooperation with some 150 colleges, are seeking to secure a closer integration between high school and college work. This division has continued its cooperation with 20 departments on the campus with the assistance of Dr. James E. Wert and Dr. Fred P. Frutchey.

The Appointments Division in 1934 did the largest business in its history—15 per cent greater than the largest previous business. During 1935 it appears that its business will be increased by the same amount over the 1934 load. Mr. Anderson's chief research project has been continuing the supply and demand study for teachers in Ohio. He has been carrying on five studies, along with his teacher placement duties.

In the Division of Personnel W. H. Cowley has this year been instrumental in organizing and carrying on the University Personnel Council. He has also organized the University's F.E.R.A. activities and has carried them through a two-year period. He has been working on 18 studies.

In the Survey Division T. C. Holy has carried on twenty-five projects. His chief study during this period was the survey of the Ohio Soldiers' and Sailors' Orphans' Home. Also during this period he had charge of the School Building Section of the Survey of the schools of Cincinnati, Ohio, conducted by the United States Office of Education. Later he was called to Washington by the U. S. Office of Education to assist in combining the different phases of this survey. Financial data for Ohio Schools and exempted villages has appeared during each of these years as has also continuing reports on the extent of financial proposals to be submitted by Ohio School districts at fall elections and the disposition of school bond issues.

The Editorial Division has published during 1933-35 23 issues of the *Educational Research Bulletin* and 24 issues of the *Journal of Higher Education*, as well as five monographs and one book by F. H. Lumley entitled "Measurement in Radio." During this period the head of this division, Dr. Josephine MacLachy, has been studying remedial arithmetic and remedial reading in an exploratory manner with a number of teachers.

The Movie Division under Edgar Dale, with subsidies from The Payne Fund, has published three major studies and has carried on an extensive national program looking toward the introduction of appreciation and criticism of motion picture courses in the high schools of the nation. It is estimated that 200,000 high-school children have been touched by this project, which has been carried on in cooperation with many other national agencies, such as the National Council of Teachers of English.

The Reference Division of the Bureau has continued to perform major services in cataloging 1821 professional books in the field of education and has regularly indexed 161 periodicals. This is the unique function which the library has performed for the last twelve years.

The Director during this period has seen the completion of the Payne Fund studies, of which he has been chairman, and the publication of a summary of his studies entitled *Motion Pictures and Youth*. He is editor of the *Journal of Higher Education* and the *Educational Research Bulletin* and as such it is necessary for him to publish a number of editorials and articles. Others of his articles on current educational problems which seem to be of significance have appeared in several magazines.

The drastic reduction in the junior staff of the Bureau has been reflected in a variety of ways. However, the Bureau has been fortunate during this period of the depression to have received substantial appropriations from outside sources for specific projects, notably the Payne Fund appropriations for motion pictures and radio education, totaling \$20,000 a year, and the General Education Board's appropriations to the testing division for the evaluation of achievement tests totaling about the same amount in 1934-35.

Report of the Bureau of Special and Adult Education

DIRECTOR, CHARLES S. BERRY

SPECIAL EDUCATION

During the biennium the director has held numerous conferences with superintendents, principals, teachers, and others in regard to problems in the education and care of exceptional children. In compliance with invitations received, 25 addresses on special education or allied subjects have been given.

Many group or individual conferences with representatives of state and local organizations interested in exceptional children were held for the purpose of discussing problems of mutual interest and concern. The director has served or is serving on the following committees and boards: Advisory Committee, Ohio Probation Association; Committee on the Constitution, Ohio Association of Consulting Psychologists; Board of Trustees, and Committee on Education and Publicity, Children's Bureau of Columbus; Committee on Legislation for the Handicapped, and Vice-President, State Field Workers' Association; Committee for the Proposed Survey of the Handicapped in Ohio.

During the spring of 1934 the Federal government conducted a national survey of the employment possibilities of the deaf and the hard of hearing. The Bureau cooperated in this undertaking by assuming responsibility for carrying out the survey in Columbus and Franklin County.

During 1933-34 the director, as chairman of the Committee on the Subnormal Crippled Child, International Society for Crippled Children, obtained by means of questionnaires data on the present status of the subnormal crippled child in the United States which were tabulated and results and interpretations incorporated in a report read at the annual meeting of the Society.

From October 30 to November 2, 1934, the director participated in two Washington conferences called by the U. S. Office of Education: 1. Curriculum for Mentally Retarded Children; 2. Coordination of Effort for Exceptional Children. As a result of these conferences two manuscripts, the various portions of which were prepared by the delegates, were compiled for future publication. A conference in Washing from May 31-June 1, 1935, attended by the director, was held for the purpose of criticizing and revising for publication the manuscript on Curriculum for Mentally Retarded Children.

ADULT EDUCATION

Since the transfer of the work of adult education to the Bureau in October, 1933, the following activities have been carried on:

1. Assisting adult study groups that were organizing or already organized by supplying information as to suitable subjects to study, titles of textbooks or names of available speakers, by preparing bibliographies, or by sending courses of study and supplementary material for group use.
2. Corresponding with persons desiring information and material on adult education activities
3. Cooperating with organizations interested in promoting the work of adult education. Conferences have been held with representatives of organizations as, for example, the Ohio Conference on Adult Education and the Ohio branches of the American Association of University Women. The director has served on the Committee of Federated Churches of Franklin County, and is a member of the Planning Committee on Adult Education, and Advisory Council, of the Ohio Conference on Adult Education.

During the biennium, 8 addresses on adult education were given by the director.

In the summer of 1934 the Bureau assisted the State Department of Education in connection with two projects of the Ohio Emergency Relief Program which were held at Ohio State University: 1. The Teacher Training Center in Workers' Education, July 21-Aug. 31; 2. The Eight Day Supervisory Training Institute for the States of Michigan, Indiana, and Ohio, Aug. 17-24.

Publications of the Director

Helping the Mentally Retarded Child," *The Nation's Schools*, Vol. 13, No. 5, May, 1934, pp. 27-32.

"The Subnormal Crippled Child," *The Crippled Child Magazine*, Vol. XII, No. 3, October, 1934, pp. 73-76.

How the Teacher May Help the Exceptional Child. Revised Edition. March, 1935. (Bulletin).

The Behavior Problem Child in the Home, the School, and the Community. (Bulletin in press.)

Report of the Department of Education

EXECUTIVE COMMITTEE, PROFESSORS DAN H. EIKENBERRY,
HARVEY H. DAVIS, HAROLD B. ALBERTY

The Department of Education, formed by the Board of Trustees by an amalgamation of the Departments of Principles and Practice of Education, School Administration, History of Education, and Practical Arts and Vocational Education, came into existence at the beginning of the biennium, July 1, 1933.

CURRICULUM REVISION

Most significant among the many activities of the Department was the inauguration of an integrated curriculum in which the former departmental lines were largely ignored. On the undergraduate level, separate departmental courses were dropped and a new 12-hour sequence built upon the frame-work set up by the College Curriculum Committee was introduced. In the subsequent work the various methods and student teaching courses were reorganized so as to conform to this sequence. The work in elementary education was also reorganized somewhat to conform to the new plan. The new courses were planned and taught cooperatively by staff members who were specialists in the various areas.

The graduate work, both for the Master of Arts and the Doctor of Philosophy degrees was also completely reorganized. A sequence of three five-hour courses, Education 603—Foundations of Education, 604—Historical Development of Educational Problems, and 605—Organization of Educational Agencies, was put into effect. This sequence, required of all graduate students majoring in Education, was designed to provide for an orientation in the various educational areas. The curriculum was further reorganized by setting up the following areas of specialization: Philosophy of Education, Elementary Education, Secondary Education, Higher Education, The Superintendency, Practical Arts and Vocational Education, and Guidance. After having covered the basic courses, either by election or comprehensive examination, the student pursues his work leading to a graduate degree by specializing in one of the above areas.

The work for the Master's Degree has been strengthened by requiring: (1) twenty-four hours in professional subjects for entrance upon graduate work; (2) a written examination in the basic areas; and (3) a written examination in the field of specialization, in addition to the oral examination on the thesis.

The work for the doctorate has been broadened by requiring concentration in one field of specialization and three or four minors in allied fields, one of these minors invariably being Educational Psychology. The work is further strengthened by requiring satisfactory competence in a subject-matter field, where the candidate is preparing for service in the teaching of a particular subject field. This requirement has brought about a closer cooperation with the subject matter departments.

Another project which is worthy of mention is the setting up of a program for the Master's degree combining Physics and Education, whereby the exceptional graduate student is permitted to specialize in both of the above fields under the joint advisorship of the Department of Physics and the Department of Education. This work requires a minimum of four quarters' of graduate work. Plans are under way for extending this arrangement to other departments.

SUMMER DEMONSTRATION SCHOOL

The Department has maintained a Summer Demonstration Elementary School on the campus under the direction of Dr. Laura Zirbes, assisted by staff members of the Department and the University School. This has attracted state and nation-wide attention. Thousands of teachers and administrators have visited the school and the numerous conferences which have been planned. It is hoped that this significant program may soon be extended to the secondary area.

RADIO PROGRAM

The Department has conducted an extensive radio program over Station WOSU, addressed to the teachers and parents of the state. Staff members participated freely in a program designed to bring about a better understanding of the place of the school in the community.

FIELD SERVICE

During the biennium, various staff members have been engaged in much field service in aiding the public schools of Ohio, as well as several institutions of higher education, in the reorganization of their programs—particularly their curricula. It is hoped that this needed service may be greatly extended, but the demands are far in excess of the ability of the staff members to find time for this work.

DEGREE WITH DISTINCTION

The Department has cooperated with the College in carrying into effect a most promising program for exceptional undergraduate students which is designed to make possible greater flexibility of program and significant achievement in the field prior to graduation. Dr. Arthur J. Klein has been in charge of this work.

INAUGURATION OF A COMMERCIAL PROGRAM

The Department, in cooperation with the College of Commerce, has set up a very satisfactory and much needed commercial program for the training of

commercial teachers for the public schools. It is expected that this program will be put into effect in the autumn of 1935.

EXPERIMENT IN COMMITTEE ORGANIZATION

The Department has been directed during the past two years by an Executive Committee of three members, elected annually by the staff. This committee has elected its own chairman, who, together with the committee, is charged with the responsibility of integrating the work of the Department and in establishing contacts with other areas. Dr. Dan H. Eikenberry has served as chairman and Professors Klein and Alberty have been members of the committee. Professors Brim and Davis have served as substitutes during a number of quarters. Professor Roscoe Eckelberry has served efficiently as secretary of the Department.

Report of the Department of Fine Arts

JAMES R. HOPKINS, *Chairman*

Nation wide interest in art has led to an amazing increase in enrollments in this field of American Universities. The Department of Fine Arts at Ohio State University has shared in this growth and has increased offerings and facilities in an attempt to meet the student demand.

The new use of art as an integrating force for instruction in elementary and secondary education, developed by the present Progressive Movement, has necessitated preparation in this field for many teachers who had hitherto ignored it. This interest on the part of educators and the fact that practically all merchandise is now valued as much on the basis of its attractiveness as on its power to function properly, have combined to develop in youth a keen desire to understand and to create things which embody the principles so generally advocated.

Design, as a basic course, is assuming more importance through the demand for better planning in the field of industry and through its increasing importance in the life of the buying public. It has become necessary to assign additional laboratory space and teachers to meet the enrollment in this subject. Space has been obtained by transferring courses in Landscape Architecture to Brown Hall, thus releasing one large laboratory. The courses have been adjusted to present day conditions, making theory immediately useful by practical problems in which the student finds a stimulus.

The work in the History of Fine Arts was rearranged several years ago with a system of alternating courses in the specialized areas. With the present Spring Quarter, the complete program has been covered and success well established through student interest. The co-operation of the department of Romance Languages and of the Department of German has been helpful in developing this sequence. Since several of the subjects are offered only every two years the number of courses possible has been raised to a point where it facilitates a larger and more varied program than can be found in most Universities. Since the History classes are large and general discussion impractical, the class periods have been supplemented by optional quiz sessions and informal reviews. This additional facility has been appreciated by the students and popularly supported.

In the field of Ceramic Art it is significant that the courses are being increasingly used as electives by prospective teachers and by teachers already

engaged in the public schools. This phase of instruction has an added importance in its ultimate effect upon the appreciation of ceramic products and in promoting creative work by individuals. Developments in kilns, bodies, and glazes, being carried out in the department will tend to bring simple ceramics within a cost range comparable to other home workshop activities.

In painting and sculpture the standards for creative work have been materially raised by the graduate students who have returned for the purpose of continuing work started during the undergraduate period. This has encouraged a more professional attitude among the undergraduates and thus has made possible a more individualized development.

The department has found motion picture facilities of great assistance in instruction and has made for this purpose nineteen films of different subjects. Some are used in drawing and design classes as illustrations of form and rhythm and others are used to show the development of processes in the production of works of art. Another important use of the films has been with groups of public school students and adults who come to the campus on observation tours. Visits to classrooms in connection with motion pictures showing complete processes of production made a comprehensive demonstration of departmental activities.

Graduates in Landscape Architecture have played an important part in the governmental activities toward economic reconstruction. C.C.C. camps in national and state parks, under the direction of the National Park Service have required the employment of Landscape Architects, and thirty-seven graduates from the Ohio State University are now on such work in fifteen different states.

The Ryerson European Traveling Fellowship in Landscape Architecture was won by a student in the Department of Fine Arts in 1933 and again in 1934, for the fourth and fifth times during the nine years that the award has been made. These men competed with students of four other middle western universities.

The general interest in art, the new demands from teachers and the impetus given by commercial needs have acted together to make an enrollment beyond the limits of the facilities furnished for art instruction. Floor space, equipment and teaching staff are inadequate to meet the situation and a report would be incomplete if it did not bring these facts to the attention of the Administration.

Report of the Department of Music

ROYAL D. HUGHES, *Chairman*

During the years 1933-1935, the Department of Music made gratifying strides in the consolidation of its program and in raising the standards of its requirements for graduation.

Due to lack of space, only certain new enterprises and comments on the latest phases of our activity will comprise this report.

STATE HIGH SCHOOL CONTESTS AND CLINICS

In 1934, the University through the Department of Music, entertained the State High School Band and Orchestra Contests bringing to the campus approximately five thousand high school students and two thousand relatives and friends. Three of the largest buildings on the campus were turned over to

these high school groups for two days. They engaged in competition at various high school levels and received constructive comment. When it was determined that the University would entertain the contest again in 1935, the department was asked to prepare a Music Clinic for the benefit of the music teachers of the state. For this clinic, the directors of the various University music organizations had their groups prepare the music which the high school contestants were to perform. Two hundred fifty music teachers from all parts of the state came to the campus and heard these compositions performed by our own organizations and were given helpful information. Indications are that we have begun a service which we must continue and enlarge in other years.

INSTRUCTION

(1) The President added very materially to the instructional plans of the department at the beginning of the year 1934-1935 by allowing the department two graduate assistants of superior attainments to be put under observation as later possible instructors. (2) The department has put in operation a plan whereby all freshmen mid-quarter reports and final grades for the quarter are made out by a conference by all instructors who teach freshmen rather than by averaging the grades handed in by each. This conference plan gives an opportunity to estimate the whole worth of the student and to diagnose his difficulties. (3) During the past year the beginning methods courses, that is, the courses concerned with actual teaching in the public schools, have been moved from the second year to the third and have been combined with courses involving the actual observation of public school teaching. This will give an additional year of general preparation and promises decreased mortality in practice teaching courses in the senior year.

CAMPUS MUSIC GROUPS

There is a strong increase in interest in campus music organizations and in the demands made on them. It is not fair to students to require them to present too many public performances, since the effect is soon noticeable upon their work and sometimes upon their health. It is apparent, therefore, that we shall soon need to consider the formation of other groups to share the burden of performance; and that we shall need to give supplementary or preparatory instruction to freshmen and sophomores.

NEEDS

(1) Improved housing and increased staffing continue to be the acute needs of the department. It is impossible to effectively coordinate a department which requires its students to recite regularly in at least six different buildings; and as long as the teaching load of the department is at such a high average, the needs of its students can only partly be met. (2) We should at once make available to the campus courses in music appreciation of a more "popular" nature than the ones which we now require of music majors; such courses as offered in other universities carry large enrollments, are the means of supplying the general student with the fundamentals of music appreciation and help many to discover whether they have a talent in music which justifies a further study in the field. (3) The University should also make available for those interested in music, courses leading to artistic performance in singing and in playing upon various instruments. These courses should be open

not only to music majors but to the general student as well. This is a part of the cultural influence which heretofore we have been obliged to neglect but which would have untold possibilities both for individual students and for the tone of the campus as a whole.

Report of the Department of Psychology

GEORGE F. ARPS, *Chairman*

The depression has made most serious invasion of the general integrity of the program of the Department of Psychology. An increase in the teaching load, both on the undergraduate and graduate levels, with serious decrease of funds for labor and equipment—all unavoidable—have depressed the general level of departmental effectiveness. On the whole, however, the department has carried its instructional program, while, at the same time, responding to the numerous requests of non-instructional service.

OBJECTIVES

In the fundamental introductory courses we have continued to stress the two major issues in teaching, namely, teaching procedures and the measurement of objectives. It will be recalled that these objectives, as finally formulated, are: (1) the student should acquire basic facts regarding mental life and the development of social behavior; (2) he should learn to evolve independently the general principles on the basis of the facts presented; (3) he should acquire an appreciation of scientific techniques and the validity of observation as distinguished from inference; (4) he should be able to apply principles to every-day situations; (5) he should eliminate popular misconceptions.

To meet these objectives we have stressed the importance of examinations which will adequately measure the student's progress in the fundamentals involved rather than his success in memorizing isolated items. Examination items have therefore been constructed and reviewed by the entire staff before they have been given to the students. The results have then been tabulated and statistical studies made by Drs. Valentine and Baker using the Hollerith equipment. On the basis of these findings the items have been revised from time to time and the procedure in the classroom has been modified wherever it was found that we are not obtaining the objectives we set up. As a result we are confident that we have considerably improved both our examinations and our teaching.

This belief is based not only on our own statistical studies and judgments of results, but also on the increasing favorable comment from the students. The results of these examinations, as already implied, have reflected upon our teaching. Where the instructors have seen that the desired results were not attained, they have made more careful study of their own procedures in order to correct the deficiency. The supervisors have been able to point out new methods of making the course more definitely functional in the life of the student. This has included a greater emphasis upon the application of psychological principles to such problems as the student's difficulties in daily life arising out of conflicts of motives, his problems in social adjustment in a university population, and the understanding of the origin of social attitudes, such as the attitude toward the church, war, moral ideas, radical and conservative attitudes.

We have also been able to extend the laboratory technique, which originally was introduced into a few sections, until now the laboratory exercises and demonstrations are common to all the sections. It is interesting, also, to note that there is a marked improvement regarding popular misconceptions. Tests given at the beginning and end of the course show that students no longer possess the cruder types of misconceptions, such as "thirteen is an unlucky number" although they still have the more subtle misconceptions based upon scientific principles. There is a very decided improvement at the end of the quarter.

We have also given the students an opportunity to express their opinions regarding the course and the instructors through the means of standard questionnaires and have been able to compare our results with the University of Indiana and Purdue University. The results of these questionnaires will be published. Briefly it may be stated that our junior staff compares very favorably from the standpoint of the students' attitude both with our own major staff and with the major staff of the other two universities.

The course in Educational Psychology is basic in the College of Education. This year for the first time it is being conducted as a laboratory course, with consequent increased effectiveness of instruction. Actual observation of children and experimentation as to important features of the learning process give reality to the treatment. Actual training in the use of scientific method in studying educational problems is now possible. Furthermore as a result of 10 years of research regarding teaching problems in the field there was finally completed a textbook in educational psychology, aiming to meet maximally the needs of a forward-looking program in this field as regards both content and method of instruction, for a required basic professional course in this subject. This text has been supplemented by experimental material for classroom use, and has greatly improved the work in this course. It is probably at present the most widely used text in the field.

A somewhat related course 663 (Psychology of the Elementary School Child) has been prescribed in the Curriculum for Elementary School Teachers. This has necessitated a considerable reorganization, especially in order to plan observation of children in psychologically fruitful ways. There is further a cooperative attempt by the several instructors of this group of teachers-in-training to do a better job of guidance and selection. Remedial personality defects are noted and suggestions for improvement made, sometimes quite in detail. Some students are advised to change their programs. All of this involves a considerable amount of personal conference beyond the routine instructor's office hours.

CLINICAL COURSES

The Psychological Clinic has continued the policies developed in recent years. There seems to be an increasing recognition of the importance of a knowledge of individual differences in human beings, both as individuals and in their social and vocational living, in the preprofessional training of students looking forward to teaching, medicine, law, salesmanship, social work, or parenthood. The clinical courses contribute to these ends. The Clinic itself with extension work at the Children's Hospital and Juvenile Court, and with the cooperation of the Bureau of Juvenile Research, has continued to afford practical training for "student-clinicians." An increasing number of children of very superior intelligence has been brought for examination. Many parents

have cooperated in a continuing study of the development of these children by returning them for re-examination after an interval of a year or more. Children from outside Franklin County and those referred for examination by the Children's Hospital are frequently considerably below average in intelligence, so there is little danger that the practical experience of students will become one-sided. There has been an increasing emphasis on the significance of problems of personality in children of all levels of intelligence. These training courses received very favorable mention in a report made by Professor Paul A. Witty of Northwestern University, based on a study of psycho-educational clinics and training courses in 34 American colleges and universities (*Journal of Applied Psychology*, 1934, 18, 369-392).

Though organized primarily as a practicum for students in training, the Psychological Clinic affords a consultation and examination service to parents, to the schools, and to various child welfare agencies. Students make follow-up studies of cases previously examined. This not only gives them experience in making home visits, interviewing teachers, probation officers, and social workers, and suggesting further programs of child guidance, but gives the Clinic something of a social service function in the community in addition to its work as a consulting agency.

The Student Consultation Service, a mental hygiene clinic for our own University students, has been continued. A similar service for a limited number of adults outside the student body is carried on without any specific designation. This can never be expanded appreciably without increase of staff, as it has not seemed feasible to use immature student-clinicians in this work. Along somewhat this same line is the special course for aiding students on probation which has been further developed. Efforts are now made not only to help students in academic difficulty, but to prevent them from getting into such difficulty.

The Department has rendered other services than those of an individual nature. For instance, with the general direction of Dr. Pressey a special program has been developed for the State Department of Education for a new Senior Survey Course aiming at the review and consolidation of the minimal essentials of schooling to date. The preparation of the material for this course included extensive experimentation and the preparation of a Student's Handbook, Teacher's Manual, and various supplementary material. Again a special study of the student group in the Emergency Junior College centers in the State has been made in order to determine the outstanding characteristics of these groups, their major problems, and desirable features to be added to these programs for the coming year.

The University Intelligence Test, Form 18, first devised in the Summer of 1933, is an instrument of great potential worth for improving secondary and higher education in Ohio. This test is second to none in point of view of prognosticating probable future academic success. The administration of the test has been so carefully worked out that skilled examiners are not necessary for giving the examination. This means that it is now feasible for high school teachers to test the high school pupil annually with the result that guidance and information with respect to possible college-going, in his senior year, may be based not merely on one sampling of his intelligence but upon four. The Ohio high schools have given upwards of 100,000 of these examinations during the academic year 1934-35 as part of the college guidance and recruiting plan of the Ohio College Association. Including the annual state scholarship at-

tainment test scores, and the average high school marks interpreted to a common basis it soon may be possible to rank the 60,000 high school seniors of the state substantially in order of their college-promise. To facilitate obtaining still additional information on pupil traits, character, and ambition a committee of the Ohio College Association proposes next year to circulate uniform college entrance information blanks among high school seniors of the state so that it may be possible to advise all of the most promising students of their excellent college promise. If, then, the colleges will take steps to insure the possibility of college-going for such students a great forward step will have been taken toward equalizing individual opportunity in Ohio, and providing for the training of that enlightened social leadership that present-day life demands.

Among miscellaneous activities of the department should be mentioned the numerous public addresses given by the members and the contribution to the Emergency Junior Radio College through WOSU. An entire introductory course was broadcast from the studio in the autumn quarter. In the winter the course on Legal Psychology was broadcast directly from the class room. A lapel microphone was used by the instructor with an auxiliary microphone operated by a push-button to pick up the class. As far as we know this is the first time that such an arrangement was ever employed. One member of our staff (Dr. Edgerton) was on leave for the winter and spring quarters, assisting in Occupational Research for the Federal Government.

It is gratifying to note that the Committee on Graduate Instruction of the Association of American Universities surveyed the institutions of the country and listed our department among the eleven which were starred as indicating the highest proficiency in graduate work. (See report by Dr. Hughes in the *Educational Record*, April, 1934, p. 192.)

GENERAL AND THEORETICAL PSYCHOLOGY

One of the essential functions of the department is to teach courses in psychology at the advanced undergraduate and graduate level. In these courses the enrollments are naturally smaller than in the elementary divisions. The selective quality of the students is somewhat higher and accomplishment is therefore on a different plane. Instruction involves more the use of laboratory and seminar methods. The department is sensitive to two distinct functions in the management of these advanced courses. Provision must be made for the training of students who propose to take advanced degrees leading to careers which involve teaching and research. It must also provide for the student whose major interest lies in another coordinate field and who wishes a cultural foundation in psychology adjunctory to his concentration in education, fine arts, economics, social or political science or biology. In some instances engineering and the medical groups also come within this classification.

It is significant that the service of our laboratory has been extended in these directions during the past two years. For example we have cooperated in setting up a series of laboratory exercises for the training of illuminating engineers in which special studies have been made in colorimetry, intensity discrimination and its quantitative measurement, contrast phenomena, visual space, and apparent visual movement phenomena. In another direction we have participated in the formation and development of a Taste Institute in which a series of cooperative studies and conferences of various problems relating to taste sensitivity to various chemical substances have been made.

Psychological facts are increasingly demanded in other scholarly fields. The department is alert to these developments and is constantly improving its methods and equipment for the better accomplishment of these ends.

Several new instruments have been designed and built in the laboratory and the research contributions compare favorably with those from other leading universities of the country.

Report of The University School

RUDOLPH D. LINDQUIST, *Director*

We are now completing the third year of the operation of the University School. The first year was devoted largely to developing some kind of an organization within the School. That has, of course, been still further developed during the second and third years. In addition to that, however, we have during these latter years sought definitely to develop the relationships between the University School and other units in the College of Education and the University as a whole, with secondary schools in this State and other states and with colleges and universities in all sections of the country.

A definite step toward the closer articulation of the School with the College of Education was made last year when the faculty of the College approved a plan setting up the Council on Educational Policies consisting of representatives from the various departments in the College. This Council has given the School a medium through which to develop more effective working relations with other departments.

The Integration Committee, created by the Council, has provided special means for developing a more effective working relationship between the School and the Department of Education. This committee has during the past year given its attention to the organization of the observation of Education students and to developing a statement of educational policies for the Department of Education and for the School. The work outlined for this committee for the coming year includes among other things further attention to the organization of observation with special emphasis upon the quality of this observation, and a continued study by both the Department of Education and the School of their respective procedures in light of the jointly developed statement of purposes.

The staff of the School have made a definite place for themselves in the program of evaluation which is being carried on under Mr. Tyler's direction. This, of course, means that they are becoming more intimately related with the work going forward in thirty schools under Mr. Aikin's general direction. With the coming of Mr. Aikin to Ohio State University they hope to have increased opportunity for working with secondary schools in the State of Ohio. Already the staff members have done a considerable amount of field work, however. Last year they addressed eighty-six different groups. This does not include numerous addresses given by the Director. On two occasions they undertook to provide the program for county groups of teachers gathered together for institutes. Of the total of 4551 observers during the past year approximately three hundred have been classroom teachers and eighty or ninety have been supervisors and administrators and psychologists. These visits by professional people have involved numerous conferences and we hope that we have been of some assistance to those in the field.

The School is this year graduating its first class. Approximately half of these are planning to attend Ohio State University. Almost all of the others

are planning to attend some college or university. In spite of a school program which departs somewhat from the conventional in its content and in its administration we have had no difficulty in securing admission for these students to the universities and colleges of their choice. One of our problems for the coming year will be that of following up our students in the colleges and helping them to adjust satisfactorily to the new conditions. In the case of those students who go to Ohio State University we expect to provide rather well for this work. A small grant from a foundation enables us to provide a person who will give practically full time to studying the needs of these students and assisting them in their college adjustments. In doing this she will, of course, work under the direction of the junior deans in the various colleges as well as under the Assistant Director of the University School. We feel rather confident concerning the ability of the class to acquit itself creditably. Only time can answer definitely whether or not our confidence is well founded.

COLLEGE OF ENGINEERING

DEAN, E. A. HITCHCOCK

Although this is a biennial report of the College of Engineering for the years 1933-1934 and 1934-1935, in so far as the several department reports are concerned, this introductory part by the Dean will contain facts for the year 1932-1933 also, since no report from the college was submitted for that period.

While the past three years have been rather trying and unsatisfactory from the standpoint of betterment in physical plant and additional new equipment, the forward movement in the direction of better teaching has continued with the same interest and enthusiasm as during more prosperous days. The morale of the staff has been excellent regardless of the most serious reduction in salaries which in some cases has required the reduction or surrender of life insurance policies.

Some important changes have taken place in the personnel of the teaching staff, necessitated largely by reduced appropriations. In the department of Engineering Drawing the services of Associate Professor John D. Russ and Assistant Professor L. D. Lutzenberger were discontinued. The same action took place in the case of Assistant Professor John E. Shepardson, of the department of Electrical Engineering, who was a good instructor and had been connected with the department for twenty-three years. The reduced budget was responsible for another important loss and that was Assistant Professor A. J. Fairbanks who became connected with the Department of Mechanical Engineering to supervise the work in aeronautical engineering. Due to the large increase in the freshman class of last year it became necessary to add, at once, two instructors to the Department of Engineering Drawing—namely Gilbert Coddington and Stephen K. Stimson. Those who were absent on leave were Associate Professor Ralph W. Powell of the Department of Mechanics and Instructor Vernon J. Otter of the Department of Engineering Drawing, the former serving as hydraulic specialist with the Muskingum Conservancy District, and the latter as engineer with the Federal Government in Idaho.

We regret exceedingly to report that very recently death entered our ranks and carried away two very important members. A. H. Vilbrandt, of the Department of Chemical Engineering, died suddenly, while on duty, on June 19, 1935. He was one of the most efficient men of that department and a fine instructor. At no time in twenty-four years has the college suffered a loss such as it must now face due to the "passing" of Emeritus Professor William T. Magruder, whose death occurred on June 20, 1935. For thirty-nine years he gave unstintingly of his energies, and no college assignment was too arduous for him to accept the responsibility with much enthusiasm. The staff in the administrative office of the College always accepted with a high degree of satisfaction any report which he would make to it, because, as everyone said, "it would be correct."

The depression certainly had its effect upon the student enrollment of the college, for in 1932-1933 the drop was 11.3 per cent from the previous year, followed by a drop of 16 per cent for 1933-1934. However, in 1934-1935 the

reverse took place, with an increase of 12.3 per cent over the previous year. This up-grade was largely due to an unprecedented increase in the freshman class, namely 73 per cent.

ENROLLMENT

In comparing enrollments by departments in this college, the accurate way is to eliminate the freshman year since the final selection of a curriculum by the student is not made until the end of that year. This has been done for the past three years and also for the past ten years, with the following results:

DEPARTMENTS	TEN YEARS—1925-1935		THREE YEARS—1932-1935	
	Per cent Increase	Per cent Decrease	Per cent Increase	Per cent Decrease
Ceramic Engineering.....	..	63	..	69
Chemical Engineering.....	113	..	10	..
Civil Engineering.....	..	27	..	18
Electrical Engineering.....	..	39	..	17
Industrial Engineering.....	116*	..	..	27
Mechanical Engineering.....	26	..	..	24
Metallurgical Engineering....	12	..	..	32
Mine Engineering.....	..	33	..	9

* From 1926-27.

It is of interest to note that of the eight departments listed four showed an increase and four a decrease during the past ten years. Industrial Engineering should be excepted, since it was established and had its first enrollment in 1926-1927. Therefore, Chemical, Mechanical, and Metallurgical Engineering have more than held their own. The conditions changed decidedly for the past three years, for seven departments showed a decrease while one department only, namely Chemical Engineering, continued to have an increase. The elimination of aeronautical courses and the dropping of the staff member teaching such subjects, undoubtedly was an important factor in the decrease in Mechanical Engineering.

The only engineering plant change of any import occurred in Lord Hall, namely the moving of the Ceramic Station of the U. S. Bureau of Standards to Washington. This change took place in 1933 and immediately made available additional floor space for the School of Mineral Industries—a crying need of its several departments due largely to the growth of graduate work in the School.

Although passing through a state of depression and, consequently, minimum appropriations for educational equipment, the college, nevertheless, has continued to be recognized by its friends and has been the recipient of \$16,000 worth of equipment during the past two years, about one-third of which went to the Department of Ceramic Engineering as a permanent loan from the Bureau of Standards. This action helped to offset the loss to the department in being deprived of contact with the Bureau staff in the transfer to Washington. For thirteen years the Federal Bureau occupied a place in Lord Hall and during those years there was the closest cooperation in every way, speaking well of the fine spirit of helpfulness which prevailed; consequently there was much regret on both sides that this close relationship had to be severed.

MATHEMATICS

During slack seasons, or in our case times of depression, when activities are in some directions necessarily at a minimum, we can take stock of ourselves and maybe do some things we have left undone or have wanted to do. For many years this college has not been satisfied with the way mathematics has been taught to our engineers. This same criticism will apply to the majority of engineering schools. The "proof of the pudding" is the inability of the engineering graduate to apply more generally and practically his college mathematics; the most important subject of his curriculum; a subject which takes up nearly twenty per cent of his required work; the backbone of his educational engineering structure.

Several years ago this subject, which for years had been taught in this college, was transferred to the College of Arts and Sciences. This change did not help the situation; in fact it was a drawback, for in a short time more graduate assistants were giving instruction to our students.

Professor E. E. Dreese, chairman of the department of Electrical Engineering, a relatively "new man on the job," one with a background of industrial experience, soon sensed the situation and, consequently, that department requested that an experiment be tried during 1934-1935 with the second-year electrical engineering students in the subject of calculus, to be taught largely by engineering professors. To quote the action of the faculty: "Each course will devote itself to the analysis of those physical problems which are best treated by the applications of the Calculus. It is the purpose of the courses to teach the techniques and processes of the Calculus in connection with physical phenomena and relationships, which ordinarily occur in engineering practice." Full power over courses, instructors, etc., was placed in the hands of a committee consisting of Professors Dreese, Ott, Alpheus Smith and Weaver. Dr. C. R. Wylie, who had just received his doctor's degree at Cornell University, was secured to assist in the experiment. The classes were taught by Professors Bibber, Ott, and Weaver, assisted by Dr. Wylie, and so satisfactory was the year's trial that the committee in a very complete report submitted to the engineering faculty at the close of the year made the following recommendations:

1. That physical analysis type of presentation of mathematics to engineering students should be continued in the sophomore year and extended into the freshman year.
2. That close coordination of instruction in Physics, Mechanics, and Mathematics in the sophomore year should be continued and strengthened.
3. That the plans and proposals for the mathematics instruction of engineering students, as described in Professor Kuhn's letter of May 31, 1935, be approved.
4. That due to the incompleteness of its work the committee be continued as a sub-committee of the General Mathematics Committee of the College of Engineering in order to cooperate with the Department of Mathematics in carrying out the above recommendations.
5. A sub-committee of the General Mathematics Committee be set up to cooperate with the Department of Mathematics in carrying out a similar program in first-year mathematics for engineering students.

Recommendation number 3 of this report refers to the department of Mathematics making certain plans and proposals which are very important and are herewith quoted as follows:

"The department's plans for enlarging the engineering group at the present time are to add Mr. LaPaz, Mr. Wylie, and Mr. A. (Mr. LaPaz taught a section in mechanics and Mr. A. would be a new mathematical instructor.)

"Among the duties of the members of this group, the following important ones may be stated:

1. To study continuously the courses offered in the College of Engineering with the view of learning what and how Mathematics is used in this College.
2. To cooperate with the faculty of the College of Engineering, through the standing committee authorized last year, in the material to be incorporated in courses in Mathematics, topics to be emphasized, view points to be presented, etc.
3. To cooperate with the director and the staff of the Engineering Experiment Station.
4. To assist in the planning of courses and to direct the theses of those who are interested in becoming teachers of applied mathematics."

REPRESENTATION AT PROFESSIONAL MEETINGS

The faculty of the college has been very well represented during the past two years at the annual meetings of the Society for the Promotion of Engineering Education and, in addition to attendance, different members of the staff have presented a great many papers and entered into many discussions. The forty-second and forty-third meetings were held at Cornell University, Ithaca, and Georgia School of Technology, Atlanta, respectively. The Cornell meeting was the largest ever held and our college had a delegation of over twenty members. At the Atlanta meeting the attendance from Ohio State University was thirteen. The representation of our faculty at the annual and regional meetings of the several professional engineering societies has been, as usual, good. The Dean was in attendance at the annual meetings of the American Association of Land Grant Colleges and Universities held in Chicago and Washington. He considers that attendance at the meetings of this organization takes precedence over attendance at any other educational meeting.

The activities of the college in the Graduate School will be reported upon by the Dean of the Graduate School. There was a reduction in the engineering enrollment in the Graduate School in the two years of the biennium (Autumn Quarter) namely from 62 students to 55 students, which seems to be in parallel with the total reduction in the Graduate School enrollment, namely 11 per cent. As is usual, for both years the heavy enrollment was confined to the departments of Ceramic, Chemical, and Electrical Engineering; these made up 67 per cent of the total graduate enrollment in engineering departments. The subjects of dissertations will be reported upon by the Dean of the Graduate School.

STATE FAIR EXHIBIT

For the first time in a great many years this college, in 1934, prepared an exhibit for the Ohio State Fair, and cooperated wholeheartedly with H. K. Schellenger of the News Bureau who was responsible for the space allotted to the University. Seven departments out of the college prepared exhibits. It was noticed that exhibits of a dynamic character attracted the greatest attention. The one department which took the lead in that direction was that of Chemical Engineering which, on account of the character of its exhibit, attracted by far the greater groups. The committee having this matter in charge was very enthusiastic over the interest shown by the public, and recommended

that it be continued for the year following, but greatly amplified. Professor John Younger is chairman for the present year.

STUDENT ACTIVITIES

I wish again to call attention to those student activities which are most effective in bringing about unity and solidarity in the student body, namely the *Ohio State Engineer*, and the Student Engineers' Council.

The publishing of the *Engineer* is a student responsibility which goes far beyond the campus and ties in with our college twenty-four other leading engineering schools. We find, however, that for various reasons it is uphill work to maintain the interest of the students in this activity and especially is this so in the case of upperclassmen. The freshman class always gives the major support. On account of this indifference it is difficult to include as valuable articles as might otherwise be obtained, and the staff is continually embarrassed by the possibility of the publication not being a financial success. Those students who are responsible for its appearance devote a great deal of time and energy to it, and we are confident that it gives us a certain standing among other engineering schools. Several plans have been tried in order to increase interest, namely, issuing seven numbers in place of four, for the same subscription price; reducing the subscription for this additional production by more than 25 per cent; and, finally, reducing it more than 50 per cent. But to no avail. It seems to me that our only alternative now is to be permitted to place the subscription price upon the student fee card. I would regret exceedingly to see this activity "die a natural death." The only other strictly college publication on the campus is that of the *Agricultural Student*, and its life is dependent largely, I presume, upon the wide circulation which it has through the department of extension.

The Engineers' Council, composed of two representatives—a junior and a senior—from each of the student engineering organizations, maintained its usual activity. This group holds its meetings regularly twice a month, and the Dean very seldom lets anything interfere with his presence at such meetings. As you will recall, one important activity of the Council was the supervising of the annual get-together known as the "Round-up." Three years ago this plan was changed, the engineering students showing, for the first time, what they could do in the way of putting on a burlesque dramatic performance. This dramatic venture resulted in two performances in the Chapel, open to the public. All participants, even the members of the orchestra, were exclusively students in this college. Our students were so encouraged by the success of these performances, and also by the support of many campus folks who were interested in their efforts, that they organized what is known as "The Quadrangle Jesters" which, under the general supervision of the Council, will be responsible in the future for productions of this kind.

Every other year the Council plans and supervises a program for "Engineers Day"—a biennial affair and usually held on Traditions Day. Open House in all departments is the principal feature of the program. This activity is continuing with its usual success. One special feature introduced in 1933-1934 was the bringing to the campus on that day of about 80 outstanding high school seniors, and housing them at the different fraternities. Engineers Day has now been a feature of this college for fifteen years; we were one of the pioneers in that direction. The Dean, this last spring, was at the University of Illinois on their Engineers Day, which also takes place biennially, and

there saw many features and methods of procedure which will prove helpful to us in the future.

I am including in this biennial report, the reports of Junior Dean William D. Turnbull and Director R. C. Higgy, complete as submitted by them to the Dean. The reports of all other departments have been edited and in some cases abbreviated in order to conform to the recent policy adopted by the Administrative Council, namely that reports of departments should not occupy more than one printed page.

As usual, it will be found that Junior Dean Turnbull's report covers, most interestingly, his very valuable activities during the past two years. I wish to take this opportunity to commend the junior dean for the intense interest shown in our students and the thoroughness with which he goes into the solution of many of the personal problems which arise in connection with these boys. The position is a highly responsible one and the present junior dean is carrying on the work most effectively.

I wish also to take this opportunity to report that, with hardly an exception, the teaching staff members of the college, and also the members of the administrative force, have been extremely conscientious in their work and, as far as I can observe, the morale has been exceptional in view of the depression conditions under which we have been operating.

Junior Dean College of Engineering

WILLIAM D. TURNBULL

ENROLLMENT

The increase in the freshman enrollment, which was general throughout the various colleges of the University in the fall of 1934, was very marked in the Engineering College where the freshman class showed an increase of 70 per cent over the class which entered in the fall of 1933. There had been a falling off in attendance since 1930, the low point being reached in the fall of 1933 when the enrollment was 258. The 70 per cent increase in the fall of 1934 brought the number of freshman engineers up to 448—the second largest class in the last five years. The table below gives the subdivisions of this year's freshman class into the various branches of the profession. The table is based upon information gathered in four polls of the class taken by the Junior Dean in Survey of Engineering.

	Beginning of Autumn Quarter	Beginning of Winter Quarter	Beginning of Spring Quarter	End of Spring Quarter
Architecture and Arch. Engr..	11	8	6	8
Ceramic Engineering.....	7	6	15	17
Chemical Engineering.....	38	33	55	59
Civil Engineering.....	22	25	32	37
Electrical Engineering.....	40	34	47	54
Industrial Engineering.....	2	7	26	33
Mechanical Engineering.....	45	41	63	69
Metallurgical Engineering....	5	7	17	22
Mining Engineering.....	2	1	4	9
Engineering Physics.....	5	5	10	11
Mechanical and Electrical Eng..	2	0	0	1
Mechanical and Industrial Eng..	0	1	0	1
Will transfer.....	...	...	...	13
Undecided.....	269(60%)	233(58%)	103(27%)	42(11%)
Total.....	448	401	378	376

It will be noted that, at the beginning of the year, 60 per cent of the freshmen had not chosen their branch of the profession, while, at the end of the year 11 per cent were still undecided. That the freshmen need the whole year to decide this important question is evident from the above percentages. In the opinion of the writer, the freshman year should remain uniform, as at present.

ENTRANCE CONDITIONS

In the Junior Dean's annual report for the year ending June 30, 1930, attention was called to the large percentage of freshmen who were entering the College of Engineering each fall with entrance conditions. For example, in the fall of 1928 almost forty per cent of the entering class lacked one or more of the required entrance subjects. The Junior Dean is pleased to report at this time a very substantial reduction in the percentages for the past two years. For the fall of 1933 the percentage of freshmen conditioned was 22.7 and for the fall of 1934 the percentage was 23.4.

This improvement has been brought about first, by a stricter enforcement of the rule which denies entrance to any student who has entrance conditions in excess of a certain amount and second, by giving greater publicity, throughout the State, to the requirements for admission.

The Junior Dean wishes to express his appreciation of the fine cooperation the College has received from the University Examiner in bringing about these very desirable reductions and to express the hope that, in time, no student will enter handicapped by entrance conditions.

In the report on Engineering Education in the United States, made by the Society for the Promotion of Engineering Education in 1929, are found these words: "It appears highly desirable that admissions 'with conditions' be abolished as rapidly as possible both because of the good effect it will have on the high school curriculum and also on account of the influence it will exert in lessening the 'moral failures' in college. It is proved, beyond doubt, that the casualties among those admitted with conditions in mathematics are much higher than those not so admitted."

CONFERENCES WITH STUDENTS

Talking with the students about their plans and ambitions, their studies and personal problems,, has taken, by far, the greater portion of the Junior Dean's time during the past two years.

It is the policy of the Junior Dean's office to hold at least one personal conference with each freshman during the first half of the Autumn Quarter and, through the earnest and active cooperation of Mr. J. M. Weed, Assistant Director of the Engineering Experiment Station, this policy has been carried out each college year.

In addition to these personal interviews by Mr. Weed and the Junior Dean, there have been those conducted by the Freshman Faculty Advisers. These interviews by the Advisers occur at the middle of each of the three quarters and have as their bases the midquarter grades. The following faculty members served as Advisers during 1933-34: Harry H. Brittingham, Frank C. Caldwell, John L. Carruthers, Charles St.J. Chubb, Wilson R. Dumble, Samuel B. Folk, Robert M. King, Joseph Koffolt, George E. Large, Paul Lehoczky, Franklin W. Marquis, Edward V. O'Rourke, Ralph W. Powell, John C. Prior, Wilbert C. Ronan, Kwan Y. Tang, Arthur S. Watts, and James R. Withrow.

SURVEY OF ENGINEERING

During the college year 1933-34 twenty-five lectures were given in the Survey of Engineering series and during the year just closed the number was twenty-four. With the exceptions noted below all these lectures were given by the Senior Dean, the Junior Dean, departmental chairmen and other professors of the college. In 1933-34 there were two addresses by a speaker from off the campus—Mr. Samuel S. Wyer, Consulting Engineering of Columbus, Ohio. His topics were "Contributions to a Way out of Today's Depression," and "Living Together in a Machine Civilization." In 1934-35, through the good offices of the Y.M.C.A., the non-faculty speaker presented was Mr. Frank D. Slutz of Dayton, Ohio, who spoke on "Choosing Your Vocation."

The Survey notebooks, which are required of the freshmen each quarter, have been of very high quality. This is due, in large part, to the fine cooperation which the Junior Dean has received from Professor Harbarger and her staff of instructors in English and from the Engineering Drawing Department.

VOCATIONAL READING ROOM

On January 13, 1933, a vocational reading room for the freshman engineers was established in Room 120, Chemistry Building. Here the Junior Dean, with the help of the various departments, has collected books and pamphlets dealing with the different branches of the engineering profession. From time to time during the college year exhibits, illustrative of the work of the various branches, are put on display by the college departments. Each exhibit is left in the room for a period of two weeks at the time that particular branch, which the exhibit illustrates, is being considered in the Survey of Engineering lectures. To date the registration book shows that freshman engineers have made 725 visits to this room.

FRESHMAN TOUR OF ENGINEERING QUADRANGLE

During Freshman Week, 1932, Professor John Younger took his group of students on a tour of the engineering quadrangle. The members of the group were so enthusiastic about the trip through the laboratories and shops that Professor Younger suggested to the Junior Dean that such a tour might well be required of all the freshman engineers. Accordingly, in the fall of 1933, and again last fall, the entire freshman engineering class made the circuit of the quadrangle accompanied by the Faculty Adviser. Guides were stationed at each building to point out the various items of interest. The Junior Dean has requested the Director of Freshman Week to continue this tour as a required project for freshman engineers.

The list for 1934-35 was as follows: Harold W. Bibber, Arthur M. Brant, John L. Carruthers, Edgar C. Clark, Edwin F. Coddington, Wilson R. Dumble, William L. Everitt, Robert M. King, Joseph Koffolt, Paul Lehoczy, James O. Lord, Robert Meiklejohn, George N. Moffat, Peter Morrison, Harry E. Nold, Carl A. Norman, Galen F. Oman, Charles P. Roberts, Wilbert C. Ronan, Howard D. Smith, Roscoe C. Sloane, Charles J. Vierck, and James R. Withrow.

SUMMARY OF INTERVIEWS BY THE JUNIOR DEAN AND FACULTY ADVISERS

<i>Junior Dean</i>	Autumn	Winter	Spring	Total
1933-34	634	377	268	1279
1934-35	851	348	277	1476
<i>Faculty Advisers</i>				
1933-34	195	161	146	502
1934-35	329	322	256	907

STUDENT LOAD IN THE FRESHMAN YEAR

After several months of study and fact-finding, by a sub-committee of the College Committee on Curricula, the following conclusion was presented on May 6, 1935, by the Committee on Curricula to the Engineering Faculty: "It is the opinion of this Committee that the present student load in the freshman year in engineering is too heavy." After much discussion the Faculty voted that it did not concur in this opinion. This action, therefore, leaves the present first-year schedule, of twenty (or twenty-one credit hours) intact. However, it was brought out in the discussion that, in those individual cases where the Junior Dean is satisfied that the load is too heavy, adjustments should be made to suit the student's capacity.

It is interesting in this connection to show the results of a questionnaire given to the freshmen by the Junior Dean on the question: "Do you consider the freshman schedule too heavy?"

Classification of students	Pt. Hr. Ratio	Yes	No
VG (Very Good)	3.50 to 4.00	4	21
G (Good)	2.50 to 3.49	50	79
A+ (Average)	2.20 to 2.49	33	27
A-	1.80 to 2.19	23	20
P (Poor)	1.30 to 1.79	27	15
VP (Very Poor)	0.00 to 1.29	5	2
Total		142	164

COOPERATIVE TESTS IN MATHEMATICS AND ENGLISH

Last September the College received an invitation from the Engineers' Council for Professional Development to take part in an experiment designed to ascertain the abilities and interests of students who enter engineering work to determine whether it is possible to predict the success or failure of these students in an engineering school.

The invitation was accepted and early in the fall quarter the Cooperative Tests in Mathematics and English were given to all freshmen of the college. The Junior Dean was ably assisted in this testing program by Professor Sada A. Harbarger of the English Department, Professor James H. Weaver of the Mathematics Department, the late Professor William T. Magruder of the Mechanical Engineering Department and Mr. James E. Wert of the Bureau of Educational Research.

The experiment was participated in by the following institutions: Columbia University, Drexel Institute, Lafayette College, Massachusetts Institute of Technology, Pennsylvania State College, Polytechnic Institute of Brooklyn, Stevens Institute of Technology and The Ohio State University. The tests are to be given by all these institutions every fall for at least four years.

"At the end of that time" quoting Mr. C. E. Davies' letter of invitation to

Dean Hitchcock to participate in the experiment, "Dean Sackett's Committee will have the results of four sets of comparable tests on all entering freshmen that have survived to the end of the fourth year in addition to the regular grades and examination results that the engineering students normally receive in their various courses. Having these data, we can compare the standing at the end of the fourth year with the standing at the beginning of the freshman course. As the result of such comparison we could establish critical zones for the scores in the tests on English and Mathematics below which few, if any, students succeed in engineering schools, and above which nearly all succeed. It would then be possible for us to tell the advisers of students in the high schools that those who receive suitable scores in the Cooperative Tests stand a fair chance of success in an engineering school."

The Junior Dean has asked Director C. W. Reeder to make this testing program a required project of Freshman Week next fall.

CONGRATULATORY CARDS

For the past five years the Junior Dean has given engrossed congratulatory cards at the end of each quarter to all freshmen who have averaged B or better in their studies. At first these cards were mailed to the Columbus addresses of these students but, during the past two years, the Junior Dean has met them in a group and, after a short talk, has presented the cards in person. The following table shows the percentages of students receiving these congratulatory cards.

College Year	Percentage
1930-31.....	19.8
1931-32.....	17.9
1932-33.....	17.9
1933-34.....	22.0
1934-35.....	21.4

HONOR LISTS

At the end of each quarter lists of all freshmen whose point-hour ratio was three or better were furnished the University News Bureau. Beginning in the Autumn Quarter of 1934, to conform to a resolution of the Junior Council, the lists were subdivided into four groups: 3.00 to 3.24, 3.25 to 3.49, 3.50 to 3.74, and 3.75 to 4.00.

CASE HISTORIES

In the Spring Quarter of 1935 case histories of fifty former students were written for the use of the University Faculty Committee on the General College. These histories, covering the period from 1928 to 1935, dealt with those students who had either been dismissed for poor scholarship, or who had left voluntarily while doing unsatisfactory work. Material for these studies was obtained from the following sources: Application for Admission, Faculty Adviser Interview Reports, Instructor Appraisal Reports, and personal interviews of the Junior Dean.

SCHOLASTIC PERFORMANCE REPORTS TO HIGH SCHOOLS

For the past four or five years Junior Dean Reeder of the College of Commerce and Administration has sent to the principal of one of the Columbus suburban high schools reports on the scholastic performance of freshman students from that high school. At a meeting of the Junior Council held in

January, 1935, it was voted to expand this service so as to include all the high schools of the State. Accordingly the Junior Council had printed forms prepared, and reports covering the work of the Autumn Quarter 1934 sent to the six hundred high schools from which the five largest colleges had received freshmen in that fall. Accompanying the report to each high school was a letter requesting the principal to indicate by return mail if similar reports, covering subsequent quarters, were desired. The number of principals who requested a continuation of this service was not large but the ones who did so were very enthusiastic about the plan.

For the College of Engineering the figures show that, for the Autumn Quarter, reports on 401 freshman engineers were sent to 203 high schools.

The University might well consider expanding this service to include all freshmen in all the colleges. It would seem desirable, however, to have some central agency collect and transmit these reports to the various high schools.

EXPERIMENTAL CHANGE IN TEACHING PHYSICS FOR ENGINEERS

At the suggestion of the Junior Dean, Professors H. G. Heil and W. H. Bennett of the Department of Physics have written a progress report on a very interesting and worth while change in the teaching of physics to a section of sophomore engineers. In the setting up and carrying on of this experiment they have had the active cooperation of Professor Wiley of the Department of Mathematics. The report is quoted in full:

During the Winter Quarter 1935, one section in Physics 431, meeting with Mr. Bennett at 11:00 o'clock, had the same students in it as another section in Mathematics 441, meeting with Mr. Wiley at 12:00. The schedule in physics was so arranged that *no calculus* was used in it until the fourth week of the quarter. At this time elementary differentiation and integration, which had been covered by Mr. Wiley in Math. 441, was also used in elementary mechanics—in the study, for example, of uniformly accelerated motions of translation and rotation, etc.

The results of the quarter's work, so far as it relates to the section of Physics 431 as taught by Mr. Bennett, are:

1. The effort is entirely sound and well worth while.
2. The class showed a more intelligent interest than any ever taught previously by Mr. Bennett or Mr. Heil, who visited the class frequently.
3. Definite progress was made in teaching students to understand formulae instead of merely to memorize them.
4. It is vitally essential, for a general adoption of the new methods, that the Mathematics Department cooperate on the scheduling of topics in the teaching of calculus so that the necessary calculus equipment will be available as the parts of physics depending on them come along. This was done as a result of cooperation secured by many conferences during the quarter between Mr. Bennett and Mr. Wiley.

As a text in the Winter Quarter a set of notes covering some aspects of mechanics was prepared. These were used in addition to the mechanics of Duff's Physics. Since present plans call for the requirement that Physics 431 and Math 441 should be given simultaneously in the Autumn Quarter 1935, a new textbook of mechanics is being written with this fundamental idea clearly in mind.

The experiment thus far seems to have been successful and to justify further work along this line. Close cooperation between engineering departments and the fundamental departments of mathematics and physics is necessary for its success.

SUPERIOR STUDENTS IN ENGLISH

Early in the Winter Quarter 1935, at the suggestion of Professor Sada A. Harbarger, Director of English 410, 411, 412, that some attention should be given to superior students, whose work in English for the preceding quarter had been of excellent quality, Mr. W. R. Dumble selected three students for special treatment in English 411. The Junior Dean gladly gave his sanction to the experiment with the proviso that the three special students prepare the usual 2000-word technical term paper required of all the students in the regular course. The experiment, the first of its kind in Engineering English, was very successful in the opinion of the Junior Dean who had the privilege of reading the special reports prepared by these superior students. The topics covered by this little group were of wide range—biography, poetry, science, the drama, modern drama and modern cinema.

In the Spring Quarter 1935, Mr. Dumble had a picked section of thirty-three superior students for whom he enriched the content of English 412. The report of this interesting experiment, which Mr. Dumble prepared at the request of the Junior Dean, is given herewith:

The ten o'clock class of English 412, Spring Quarter 1935, was divided into high and low sections, the high section being taught by W. R. Dumble. It consisted of 18A, 13B, and two high C students, the division being made on a basis of grades in English 410 and 411.

Whereas, time in my average-student classes for the preparation of the term paper consumed twelve recitation periods (three classes per week for four weeks) in the advanced-student section only three class recitations were devoted to the actual teaching of a term paper as such. The other nine periods were devoted to the enrichment of the course through class lectures on and discussions of the history of the drama, modern drama and modern cinema. Modern plays discussed at length included, O'Neill's, *Mourning Becomes Electra*; Kauffman and Ferber's, *Dinner at Eight*; Kauffman and Ryskind's, *Of Thee I Sing*; Rice's, *Street Scene*; and Hellman's, *The Children's Hour*. Undoubtedly this would not have been possible if those thirty-three advanced students had been interspersed among average students of the other classes who could not work so rapidly without the instructor's aid in the term paper preparation.

After the first four weeks had passed the work of the advanced-student class was much the same as that of the average-student class as to the material covered. The manner of covering the material, however, was more mature in the advanced-student class.

The results were astonishingly fine. They show that it would have been a waste of time for the advanced students to be obliged to sit through class recitations on the term paper. Their term papers comprise the best batch of papers I have ever received in my four years of teaching English to engineers.

MISCELLANEOUS ACTIVITIES

During the two-year period covered by this report the Junior Dean has engaged in many other activities, the most important of which are:

1. Membership on the following committees: National S.P.E.E. Committee on Orientation of Freshmen, Engineering College Executive Committee, College Committee on Curricula, Sub-Committee of the Committee on Curricula.
2. Chairmanship of the Junior Council.
3. Membership on the University Personnel Council.
4. Assisting Professor Greenshields of Denison University in planning the program of the Spring meeting (1935) of the Ohio Section of S.P.E.E. at

- Granville, Ohio, and serving as leader of the symposium on "Accounts of Some Recent Experiments and Tests for More Effective Teaching."
5. Assisting Mr. B. L. Stradley in making the preliminary selection of F.E.R.A. students.
 6. Conducting "Vocational Talkies" on Engineering for the Columbus Central Y.M.C.A.
 7. Participating in the vocational guidance program conducted at North High School by the Kiwanis Club of North Columbus.
 8. Addressing the students of McKinley High School of Columbus on "Careers in Engineering."
 9. Giving the illustrated lectures on "History of the University" to the freshmen during Freshman Week.
 10. Addressing the 4-H Club boys on the occasion of their visit to the campus.
 11. Addressing the Men's Bible Class of the Covenant Presbyterian Church of Springfield, Ohio, on "The Alphabet and the Bible."
 12. Preparing and broadcasting two talks over WOSU: "Home Architecture from the Engineer's Point of View" (in collaboration with J. M. Weed) and "Engineering as a Career."

ACKNOWLEDGMENTS

The Junior Dean wishes to express his hearty appreciation of the fine spirit that has prevailed among the students and faculty of the college. Without the cooperation of the faculty, especially those who voluntarily served as Freshman Advisers during the past two years, the writer would not have been able adequately to take care of the counselling of students.

Dean Hitchcock, as in previous years, has given a sympathetic ear to the Junior Dean's troubles, plans, and aspirations. He has indeed been counsellor, guide, and friend.

The writer wishes also to record his appreciation of the fine cooperation of the College Secretary, Professor Lawrence D. Jones.

Mention should also be made of the loyal service of the co-workers in the college office: Miss Lenora Glasgow, Assistant to the Dean; Miss Lilyan Bradshaw, and Miss Annie Fraser.

The Junior Dean wishes also to express his appreciation of the faithful and efficient service of Miss Helen Vogel who has been in special charge of the personnel and academic records of all the freshmen.

Department of Architecture

CHARLES ST. JOHN CHUBB, *Chairman*

No profession has suffered more severely, as a result of the depression, than has that of architecture, and this condition has been reflected in all schools of architecture through the greatly reduced number of students pursuing such study. This condition has been accepted by the Committee on Education of the American Institute of Architects as an improved condition inasmuch as there were far too many students, unqualified by aptitude for architecture, during the days of prosperity. The result in our Department of Architecture is of a two-fold advantage: First, the quality of the students in the department is decidedly improved, and second, the teaching has been bettered by increased time for individual attention to each student. This latter item is of great importance as architectural design can be taught only by individual criticism.

During the year 1933-34 practically the last of the students in the old four-year curriculum completed their studies and the first degrees of the five-year curriculum were awarded in June, 1935.

Considerable improvement has been made in the study of building materials through the introduction of a new course in that subject and through the rearrangement of the materials laboratory. This has been done in an effort to keep the instruction abreast with the many new materials for building purposes constantly coming on the market.

The introduction of the course, "Special Studies in Architecture" has given both the instructional staff and the student body an excellent opportunity to keep in touch with the current developments in "Low Cost Housing" and "Slum Elimination." The chairman of the department has served as the chairman of the Franklin County Housing Authority having to do with the housing problem in Columbus. No field of architectural study is of greater national significance at the moment than is that of housing and the department has been quite alive to its implications.

The department holds to its previously expressed views with regard to Graduate Study in Architecture, namely that our students should be encouraged to pursue such study in those educational centers where adequate libraries and museums are to be found and where they will be surrounded by a truly inspirational architecture. We are supported in this view by the Report of the Committee on Education adopted by the recent Convention of the American Institute of Architects.

The chairman of the department is serving on the executive committee of the Association of Collegiate Schools of Architecture in which capacity he is in close touch with problems of architectural education throughout the country. This committee, jointly with the National Council of Architectural Registration Boards and the Committee on Education of the Institute, is working on a program of better education in preparation for the practice of architecture. The chairman was in attendance at the deliberations of these bodies at the convention of the Institute in May at Milwaukee.

The most important educational advance made during the past year arises out of the rearrangement of the housing facilities of the department in Brown Hall. These changes made it possible to move the Department of Landscape Architecture into the offices and drafting rooms of this department much to the educational advantage of both departments. Students in architecture have received valuable criticism from the instructors in landscape architecture and students in landscape architecture have received similar criticism from the instructors in architecture. The library facilities have been greatly improved by the transfer of the books on landscape architecture to Brown Hall. The juries assigned to the judging of all design problems in both departments have been made up of both architects and landscape architects. The administration of these intimately allied educational programs is still located in two colleges—those of Engineering and Education. In practically every other University the work in architecture and landscape architecture is administered as an educational unit.

Broadcasting Station WOSU

R. C. HIGGY, *Director*

The Broadcasting Station, during the past two years, has maintained a broadcasting schedule of approximately 35 hours of programs each week. No change has been made in the schedule of hours or status of the station during this period.

For the year ending July 1, 1934, the total broadcasting time, during which programs were transmitted, was 1782 hours. For the year ending July 1, 1935, the total broadcasting time will amount to 1711 hours. During both years approximately 35 per cent of the broadcasting time was devoted to programs transmitted during evening hours and the remaining 65 per cent to programs transmitted during daylight hours. This time represents approximately 84 per cent of the total time assigned WOSU by the Federal Communications Commission. The unused time was almost entirely the hours after 10:30 p. m.

The programs have continued to be largely the presentation of educational information and organized instruction in cooperation with the various University departments. Sixty-five University departments have presented broadcasting programs each year showing a great variety of topics and subject matter. An analysis of a typical week's program shows 12 per cent of the broadcasting time devoted to the presentation of interesting information of all kinds, 8 per cent devoted to the presentation of practical information of direct use, 38 per cent to the teaching of organized lessons for adults and children, 31 per cent for the broadcasting of music and drama (principally for pleasure and a cultivation of appreciation) 3 per cent for talks stimulating good citizenship and knowledge of government, 2 per cent for direct news and publicity about Ohio State University, and 6 per cent for miscellaneous broadcasts, including sports, news bulletins, and other information.

The cooperation of the faculty has been most commendable, and has enabled the presentation of subjects and information most desired by radio listeners. The activities of the station have been supervised by the faculty Radio Education Committee, which has given considerable help in formulating the policies, and in developing the station's program. Several of the colleges have also cooperated through college radio committees, who have outlined and coordinated the radio presentations of departments within the colleges. This procedure has permitted a well balanced program to be presented.

During the two-year period the University was represented before the Federal Communications Commission on two occasions, furthering the interests of the station. These appearances both occurred at the request of the Commission, and were for the purpose of providing general information about educational broadcasting. This interest on the part of the Commission reflects the increasing interest in educational broadcasting throughout the country, and has resulted in much favorable comment on WOSU programs.

The most significant development during the two-year period has been that of the Emergency Radio Junior College. Classes have been organized with instruction being given by members of the University faculty through WOSU, in cooperation with the Emergency Schools Administration of Ohio. The Emergency Schools Administration assisted in providing field workers in many counties and an office staff to prepare and distribute supplementary lesson ma-

terial. This work was started January 1, 1934, and the enrollment for the five quarters has been:

Winter Quarter 1934.....	624
Spring Quarter 1934.....	910
Autumn Quarter 1934.....	903
Winter Quarter 1935.....	1350
Spring Quarter 1935.....	1548

The registration for the five quarters includes 3944 different students. The results of this organized teaching by radio show clearly that in many subjects radio can successfully bring instruction at college level to radio listeners. In some fields it has been determined, by the instructors, that the radio students can satisfactorily receive instruction and pass examinations with the same proficiency as students in University classrooms. The faculty Radio Education Committee is following the work of the Junior College very closely in an effort to develop the best techniques and a most satisfactory program. Through this medium it is expected that the Radio Station will make available to the people of the state many of the advantages heretofore obtained only by those in residence at the University.

Department of Ceramic Engineering

ARTHUR S. WATTS, *Chairman*

During the past two years the department has, probably, been more useful to the State and industries than during any other similar period. During the depression a file was developed of unemployed alumni, and 128 graduates out of a total of 381 alumni have been placed in new positions with the assistance of the department. Standards of scholarship have again been raised, greatly increasing the prestige of our graduates.

While laboratory and research equipment is inferior to that of other large ceramic schools, the department has greatly improved this by rebuilding several pieces of equipment presented by friends. Quality of research is as productive and of as high quality as any in the United States and is gaining an international reputation.

The department has conducted several colloquiums on subjects of great industrial importance and is contributing to the solutions of the problems involved.

Department of Chemical Engineering

JAMES R. WITHROW, *Chairman*

The administration of departmental work and the teaching load during the past biennium was carried on without the addition of teaching staff of major rank, or changes in the personnel of the major staff.

One new course has been inaugurated. This is a round-table course and fills a vital place in the education of the chemical engineering student from a social, economic, and management aspect. The expansion of the fundamental course "Principles of Chemical Engineering" from a one quarter two-hour subject to a two quarter two-hour subject, permits of a more thorough and necessary treatment of requisite fundamental chemical engineering information. A considerable extension of the advanced chemical engineering laboratory course has been made during the past two years. A gradual development

has been made on the advanced chemical engineering laboratory course since its inauguration in 1929 with an ever increasing student enrollment, which increase in enrollment has come to the point where a limit has been reached with the available equipment and teaching personnel.

The procurement of a "Federal" air classifier has served the purpose of demonstration and teaching of the principles involved in industrial air classification. The installation is also being used on research of particle size distribution by a staff member. The installation of fourteen electric thermometers with remote indicator on the Column still makes possible the study of plate efficiencies and heat transfers.

The total enrollment in chemical engineering courses has shown a steady and healthy increase during the last biennium. The total number of graduates from this department shows that the degree of Bachelor of Chemical Engineering was obtained by 30 students in the first year of the biennium and by 41 in the second year—five years ago, in 1930, the number was 19; 8 students received the Master of Science degree in 1933-1934 and 7 in 1934-1935; 9 received the Doctor of Philosophy degree in the two years of the biennium.

The departmental staff has participated in many outside educational activities. The chairman of the department made numerous addresses to various organizations; made many industrial contacts in the way of research conferences and investigations, and also had city, state, and federal conferences in many parts of the country. He attended numerous educational meetings and was chairman of Symposium on Building and Construction Materials at the American Chemical Society Meeting in New York. Other members of the staff attended a number of meetings such as: The American Chemical Society Meeting, Columbus Section, at Granville, Ohio; Ohio Academy of Science Meeting at Columbus; Meeting of the Society for the Promotion of Engineering Education at Ithaca, New York; Granville Meeting of the Ohio Section of the Society for the Promotion of Engineering Education; Ohio Engineering Society's meetings at Columbus.

During the past biennium thirteen papers were prepared of which five have been published. Of the others four have been read before the Ohio Academy of Science, three before the Ohio Society of Professional Engineers, and one before the Society for the Promotion of Engineering Education.

Department of Civil Engineering

CHRISTOPHER E. SHERMAN, *Chairman*

Beginning in September, 1933, the staff payroll was reduced by dropping one assistant professor and by the chairman going on part time. The work of instruction has been carried on faithfully and earnestly by the reduced staff in spite of salary cuts which fall heavily upon some members. Students have not declined much in numbers, and in quality not at all. Their scholarship has been good and their effort sincere in spite of hard times. It would be heartening were one sure that the majority of oncoming American citizens were of as high integrity.

Together with classroom and laboratory work, students are required to do practical engineering work outside the campus before graduating in civil engineering. The depression has made it more difficult than usual for them to comply with this requirement, but it insures that their diploma means real

training in engineering which is primarily applied science. As a result of such training there are few unemployed graduates at this writing.

Summer Surveying Camps have been regularly conducted for those who could not get engineering practice elsewhere. When possible these summer camps work on actual projects, and much notable work has thus far been done for the State. At present students in the Summer Camp are surveying reservoir sites in the Hocking Valley for the Ohio Water Conservation Board.

Upon the request of public officials and others, members of the staff have acted as consultants on important projects. For the Director of the United States Coast and Geodetic Survey the chairman organized and directed the Ohio Local Control Surveys during the winter 1933-1934. Similarly he served as chief engineer for the Board of Directors of the Scioto-Sandusky Conservancy District, during the Winter of 1934-1935. His preliminary report on this project is now before the federal authorities at Washington for action. Professor C. T. Morris was asked to serve as consultant on the proposed Springfield Ohio Conservancy work and more recently on the foundations of the proposed Columbus municipal light plant. Professor John C. Prior has acted as consultant on public water supplies at both Columbus and Marion, Ohio. Plans for the new Main Street bridge over the Scioto at Columbus were prepared under his direction, and he has been retained by the city as consulting engineer during construction now under way. Many lesser services have been rendered by other members of the staff to the public and others, during their vacations. This keeps our instructors in touch with practice.

Research is also carried on by staff members. The more pretentious researches lately published are listed in report to the Dean of the Graduate School. Attention is especially called to their serviceability for economizing in constructing public works, and for future planning.

Some important investigation work is carried on as a thesis-work under direction of staff members. One example is the survey of silt deposits in O'Shaughnessy reservoir. The silt in Griggs reservoir is similarly being surveyed. When completed this will be the most important survey of the kind in the State if not in the country.

Department of Electrical Engineering

ERWIN E. DREESE, *Chairman*

The department has attempted a survey of the employment status of its graduates over the past ten years, to determine exactly what the true situation is. It was hoped that after canvassing the men personally it might be possible to relocate them in some sort of employment which would at least give a living to those who might be unemployed. It was not the purpose to attempt to move any man who was employed at a job which would justify his having obtained a degree in electrical engineering.

An effort is made also in contacting industrial concerns which are likely to hire graduates this year. A file of complete information as to the experience and capabilities of the men is maintained as nearly up-to-date as feasible, at all times.

"Honors Group" work for seniors in electrical engineering was started in the winter quarter of this year. For the two quarters, this work was confined to the communication instruction, but the lessons there learned will be used to expand the activities to other branches of electrical engineering. Seniors, who

are selected in this "Honors Group" have been given freedom and responsibility in directing their own work. They have been excused from regular examinations and in its place are taking a comprehensive examination during a period of two weeks at the end of the spring quarter.

The graduate committee of the department has initiated a new requirement for Masters' candidates, which it is believed will lead to a more thorough development of their analytical ability and grasp of fundamentals. At the beginning of the quarter in which they are candidates for a degree they are required to take an oral examination. After this examination the deficiencies of the student are discussed with him and he is advised on courses of independent study before he comes up for his final examination.

The signal corps has started to send regular army officers to Ohio State University for advanced instruction in communication engineering. One officer was sent this year and two will be sent next year.

During the past year Professor Byrne went to Massachusetts Institute of Technology, while Dr. H. L. Hazen of M.I.T. was here with us on the exchange professorship arrangement made between the two institutions. Dr. Hazen is the author of a number of papers; and the papers on Servo-mechanisms resulted in the award of the Louis E. Levy Gold Medal of the Franklin Institute of Pennsylvania, which he received on May 15, 1935.

Various members of the staff have given talks before different organizations during the last two years; and several members of the department will lead technical conferences on various subjects at the next Summer Convention of the American Institute of Electrical Engineers.

This department has spent a great deal of time and effort in the study of contents of courses offered both to our men and to the non-electricals. Improved arrangements of equipment have been made for fundamental studies in the laboratories and precautions have been taken for the safety of students working in the department.

Department of Engineering Drawing

THOMAS E. FRENCH, *Chairman*

In the Autumn of 1933 the staff of the department was reduced by the resignation of two of its members and the granting of a leave of absence to another member. The year following the enrollment of freshmen increased to such an extent that it became necessary to add two new instructors to the teaching staff. (This change in personnel is referred to in an earlier part of this report.)

During the Spring of 1935 the fifth edition of Professor French's "Manual of Engineering Drawing" was published. This text book is the standard in more than 400 colleges and universities in the English speaking nations.

Associate Professor W. B. Field published an "Introduction to Architectural Drawing" which has found its place in many high schools and secondary schools.

Associate Professor Ralph S. Paffenbarger gave a paper on "Engineering Drawing for Chemical Engineers" at the June, 1934, meeting of the Society for the Promotion of Engineering Education at Cornell.

Department of Industrial Engineering

JOHN YOUNGER, *Chairman*

The Department has three research projects under way—one on the characteristics of a Thompson Surface Grinder; the second on the use of propane or methane for welding and cutting processes; the third on machinability of materials. The Thompson Grinder Company has given us one of their latest machines on consignment, and its presence and demonstration have been a great educational stimulus.

During the last year the department has cooperated with the Home Craftsmen's Club of Columbus in putting on a series of lectures of an educational nature. Attendances of fifty have been registered. Further, welding and foundry conferences have been put on, which have increased our contacts with industry. Also, an "Open House" was staged to which some 800 visitors came to see the educational facilities of the department demonstrated.

During the Spring Quarter 1935 Professor Lehoczky published a book entitled "Quantitative Management in Industry." It has been well received.

The department has been making special efforts to place its graduating students in industry and is pleased to report that it has been, on the whole, successful. This fact is mentioned because, in the process of approaching industry for its cooperation in taking on these young men, many new industrial contacts have been established which cannot help but be of advantage to the college as the years go on.

As a result of the Welding Conference the department has been presented (on loan) with a very recent model electric welding unit produced by Hobart Brothers Company of Troy, Ohio. This unit will be of great value in demonstration and research work.

Department of Mechanical Engineering

FRANKLIN A. MARQUIS, *Chairman*

Because of the financial stringency it was found necessary to release two members of the department's teaching staff at the beginning of the Autumn Quarter 1933—the assistant professor of aeronautical engineering and a part-time assistant. Consequently, much to the regret of the department, aeronautical engineering subjects, with the exception of one three-hour course, were discontinued. It is considered a step backward to decrease to almost nothing the offerings of the department in this important and rapidly developing field of aeronautical engineering.

Professor Magruder's work, Professor Fairbanks' non-aeronautical work, the one of his aeronautical courses which was not dropped, and Mr. Marco's duties, have had to be assigned to other members of the department staff in addition to their previous work. The department feels that the efficiency of its undergraduate teaching work has been pretty well maintained, although it has been increasingly difficult for members of the staff to find time for the promoting of graduate work, for study, research, and other things which mean moving forward instead of stagnation.

In spite of the situation as explained above, several of the staff have found it possible to make some progress on worth while research problems. Among these the work of Professors Stinson and Roberts on the Coefficient of Friction Between Automobile Tires and Road Surfaces, and on Automobile Engine Oil

Stability; that of Professor Beitler on Fluid Flow; and that of Professor Brown on Propeller Fans and Fan Testing should be mentioned. In addition, Professor Brown has given two new elective courses, one having to do with refrigeration and the other with air conditioning. This work has been possible only because of the great interest and energy possessed by the men involved, and has meant the expenditure of unreasonably long hours on their part.

Beginning in the Autumn Quarter of 1933, two three-hour courses in economics, arranged especially for engineering students, were added to the mechanical engineering curriculum. In order to make room for these courses it was found necessary to decrease slightly the time devoted to engineering drawing, to drop one course in metallurgy, and to make some other minor adjustments. The department feels that the addition of even this small amount of economics was a wise change, even if it was done at the expense of some technical work.

During the past few years, because of financial conditions, the student inspection trips were seriously interrupted. However, both senior and junior trips were taken in the Spring of 1935. These trips were arranged so that they were considerably less expensive than heretofore. The necessary expense to each student for five days of visits to industrial plants was approximately \$15.00. Both the faculty and the students who went on these trips agree that they were valuable experiences.

Department of Mechanics

PERCY W. OTT, *Chairman*

The facilities of this department have been greatly improved by the installing of floors in the second-story space at the west end of the Mechanics Laboratory. The University has, thereby, with relatively little expense provided an additional office space 12 ft. by 15 ft. and a research laboratory room 12 ft. by 25 ft. This will enable the department to move its special laboratory equipment out of the general teaching laboratory, and provides a suitable place for miscellaneous research work.

Mr. F. D. Cooper, who held the Stillman W. Robinson fellowship for the year 1934-1935, has added to the reflecting polariscope which the department had for demonstrations of photo-elastic effects, and has converted it into an excellent piece of equipment for getting quantitative results by the photo-elastic method. This device now gives photographs of stress fringes almost as clear and readable as those given by the polariscopes with the optical lens systems, and has the advantage of a field view several times as large as can be obtained with the lens polariscope. It is a very important addition to the equipment of the department and opens up a promising field of research.

The members of the department appreciate greatly the services of the F.E.R.A. students. There have been six of these boys since they started and these have been kept fully employed on useful and constructive work.

Members of the department have taken an active part in extra-mural educational work conferences during the biennium. Professor Folk was vice-chairman of the Ohio Section of the Society for the Promotion of Engineering Education in 1932 and chairman in 1934. He was a member of the National Committee on Sections and Branches in 1934, and finishes this year a four-year term as member of the National Executive Committee, Division of Mechanics. Professor Powell attended the Conference of Model Studies at

Cornell last spring, and presented a paper on "Dimensional Analysis" which was later published in *Civil Engineering*. Professor Tucker was on the program of the Society for Promotion of Engineering Education meeting at Atlanta, this spring. Professor Boyd attended the Conference on Mechanics at Ann Arbor early in June. Professor Ott is completing his fifth year as National President of Tau Beta Pi.

Department of Metallurgical Engineering

DANA J. DEMOREST, *Chairman*

Owing to the reduction in the number of graduate assistants allowed the department and the consequent increase in problem grading and other detailed work demanded from the regular staff, it has been difficult to get much research work done. Nevertheless, Mr. Lord has published two articles in the *Journal of the American Ceramic Society* on "Reboiling of Enamels on Steel Sheets." Mr. Mueller is continuing his work on a test on "Ore Dressing," and Mr. Demorest is revising his text on "Metallurgical Analysis" and has written articles on "The Fusibility of Coal Ash" and "The Diffusion of Metals."

In addition to attending local meetings of the American Society of Metals and the American Institute of Mining and Metallurgical Engineers, Mr. Lord attended the national meeting of the American Ceramic Society and Mr. Mueller attended the national meeting of the American Institute of Mining and Metallurgical Engineers.

Mr. Demorest has spent a large amount of his spare time in working up the teaching of Thermodynamics to Metallurgy classes and in extensive experiments on the metallurgy of vanadium which will probably result in the establishment of a Vanadium industry in Ohio. He has also given a great deal of time in collaboration with Mr. Jacoby at the Engineering Experiment Station.

As in all departments the decreased salaries have made it necessary to give more attention to outside sources of revenue which probably has detracted somewhat from teaching efficiency, but the staff has made a deliberate study of its teaching problems and a conscious effort to constantly improve its primary function—teaching.

The department cannot carry on satisfactorily another year without renewals and extensive repairs and additions to its instrument equipment.

Department of Mine Engineering

HARRY E. NOLD, *Chairman*

The past twelve months have shown a gradual improvement in employment opportunities for graduating mining engineers. Unemployment among recent graduates is almost eliminated. Prospective employers, however, are quite critical of the quality of the young engineers they are taking into their organizations, having no place for mediocre men.

Professors Nold and O'Rourke have been experimenting in teaching methods. Good text books covering the entire mining field do not exist. To buy a number of rather expensive texts is financially impossible for most students. The department, this year, experimented rather extensively in attempting to overcome the lack of text books by requiring the students to do more extensive and systematic reading in the library, making weekly written reports of their

readings. The subject matter of such reading is, of course, selected to supplement class discussion.

To date, during the financial shortage, the department has been able to continue with the equipment on hand without serious damage to the educational program. The point has now been reached, however, where one piece of equipment (transit) must undergo extensive rebuilding or, better, should be replaced.

As part of the activities of the homecoming game last fall, Professor O'Rourke organized a reunion for mining alumni. There was an attendance of forty-five. The fact that those present asked that such reunions be held frequently indicates the success of this, the first mining alumni reunion.

The Engineering Council for Professional Development is fostered by the Society for the Promotion of Engineering Education and the four major national engineering societies—American Institute of Mining and Metallurgical Engineers, American Society of Civil Engineers, American Institute of Electrical Engineers, American Society of Mechanical Engineers—together with the National Society of Engineers' Licensing Boards. A plan has been adopted of accrediting curricula in engineering schools. The work is to be done in some parts of the country during 1935 and will be extended all over the United States as rapidly as possible. This department is considerably agitated about the possible results of such an examination unless additional laboratory space and sufficient money to increase our mining laboratory equipment can be obtained so that it will compare favorably with other mining schools in universities comparable to The Ohio State University.

There appears to be a recent trend toward a greater demand for mining engineers with a master's degree. The department lacks equipment for properly carrying on graduate research work. One Mining Engineer graduate received his Master's degree in June, 1933, another in June, 1934, and another is receiving his this year. The 1933 and 1934 men carried on their research in the Department of Metallurgy. This year's man, on the advice of the department, went to another mining school where better equipment is available. The department believes the time has arrived when graduate work in Mining Engineering should be emphasized, and plans to do so as soon as funds for equipment are available.

Department of Mineralogy

WILLIAM J. MCCAUGHEY, *Chairman*

The acquisition by the Department of Mineralogy of additional space formerly used by the U. S. Bureau of Standards furnished the department with a laboratory for large sections in beginning Mineralogy and also provided a chemical laboratory for analytical purposes. By the acquisition of this additional space it has been possible to separate advanced work in Mineralogy from the beginning courses, which are more descriptive and less experimental. This has resulted in increased efficiency of instruction, and has relieved the department of congestion that has adversely affected the quality of laboratory instruction and furnishes opportunities for satisfactory research.

During the biennium, the department has built an electric resistance furnace for temperatures to 1400° C. and a rotating crystal device for X-ray crystal analysis. These two pieces of equipment give promise of widening

the field of advanced experimental and research work in mineralogy and in advanced crystal structure.

Close cooperation with other departments of the School of Mineral Industries has continued in the field of mineral technology. Much of the advanced work in the department is elected by students of mining, metallurgy, ceramics, and geology.

The Department of Mineralogy is cooperating with the Departments of Physics and Chemistry in jointly giving an advanced course in X-rays and Crystal Structure. This course has been very favorably received and gives opportunity to the student of acquiring a very broad knowledge of X-rays and their application in widely different fields.

Much of the graduate work in the department is covered by phase equilibrium studies at high temperatures in systems involving: $(\text{CaO} \cdot \text{MgO} \cdot \text{SiO}_2)$; $(\text{FeO} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2)$; $(\text{MgO} \cdot \text{MnO} \cdot \text{SiO}_2)$. These are important systems, involving slags developed in metallurgical operations and in refractories used for building steel furnaces.

Much of the research microscopic work on frozen pyrometric cones was done by Mr. Rea in the Department of Mineralogy, and Dr. Bole, superintendent of the Standard Pyrometric Cone Company, has been very generous in crediting this work in the solution of this problem.

Work on the mineralogical constitution of metallurgical slags and refractories is being continued. Considerable interest in industry has developed recently in regard to silicosis, and the department has examined for Dr. Hayhurst of the State Board of Health industrial dusts and lung material of victims of silicosis. A number of industries have requested a mineralogical analysis of material used in foundries in the hope of reducing health hazards. The department has sent to Harvard Medical School 50 pounds of sericite clay for experimental work.

Considerable numbers of requests for mineral identification are sent to us by residents of the state. Identification of minerals is done cheerfully and without charge. Cooperation in supplying mineral specimens for scientific purposes for other instructional departments has been rendered to Chemistry, Physics, and Medicine. Cooperation is also extended to the Civil Engineering department by giving two lectures on the Mineral Constitution of Portland Cement and the Properties of These Minerals.

Professor McCaughey lectured at the University of Rochester, May 20, 1935, on Method and Results in Silicate Research.

Department of Photography

FRANCIS W. DAVIS, *Chairman*

In the past two or three years photographic processes have been used much more extensively in the fields of technical and scientific research and now are not only useful aids to scientists and experimenters but an absolute necessity in certain branches of physical and chemical research, not to mention entomology, biology, engineering, medicine, and a host of others.

It is felt that the major purpose of this department on the campus should be, first, to instruct the undergraduate and graduate students in the art and science of using photographic processes in their particular field whether it be scientific or for artistic purposes. Secondly, to further scientific investigation along such lines as pertain to this field; and, thirdly, to provide the

Ohio State University faculty and student body with a high class photographic service of all types.

The Department of Photography is divided into two parts: the academic branch, for the instruction of the students, and the commercial division, under the rotary system of operation, for making the negatives, prints, enlargements, lantern slides, motion pictures, etc. An effort is being made to coordinate the two divisions as closely as possible as it is felt that this is necessary for the efficient operation of each. In other words, the commercial branch may well profit by the research work of the advanced students, and the class work can profit from the practical work of the commercial staff.

Due to the helpful cooperation of the Administration the methods, and to a certain extent the equipment of this department, have been modernized. Due to the increasing popularity of various phases of this work, such as motion pictures, three color photo engraving, natural color photography, long distance infrared work and many others, it has been necessary to branch out and include these items in our work. The staff being reduced, however, necessitates the further study of work routing methods to find out how the operations as they were being conducted could be improved upon. This was done and with the addition of these improvements of methods and equipment, together with a complete remodeling of the department, it is felt that the work is progressing as efficiently as possible under present conditions.

In the academic work it was necessary to give two additional new courses to take care of the broadening field. One of these is a course in scientific work for advanced students in the field of Chemistry and Physics, treating the subject from a scientific standpoint. The other course, is a short course for engineering students discussing the subject entirely from their standpoint.

The students in this work are particularly fortunate in being able to observe the various topics which they study in class and laboratory in actual operation in the commercial department. Here they may see how photographic work is performed in industry without going on an inspection trip. However, several inspection trips are arranged in order to broaden their acquaintance and to observe several types of processes which we do not have here. In certain cases advanced students are allowed to do some of their work in the commercial plant, for instance, the newly remodelled portrait studio is turned over to the advanced class for a certain period to enable them to make high-class photographic portraits.

COLLEGE OF LAW

DEAN H. W. ARANT

The enrollment in the College of Law for the past three years has been as follows:

	1932-1933	1933-1934	1934-1935
Autumn Quarter.....	260	246	274
Winter Quarter.....	242	234	258
Spring Quarter.....	231	219	255

The enrollment in the Autumn Quarter, 1935, is 328.

This recent growth in our enrollment is most gratifying. It requires no comment.

FACULTY AND CURRICULUM CHANGES

Because of the necessity for personnel reduction due to budget curtailments, it was necessary for the faculty to be reduced to the extent of one person in the years 1933-1934 and 1934-1935. When this necessity became known, Professors Alonzo H. Tuttle and Clarence D. Laylin generously agreed to go on half time in order to prevent the dismissal of any member of our faculty. This gracious offer was accepted but it made necessary considerable reductions in our course offerings and a substantial redistribution of courses. The courses in Taxation, Office Practice, Quasi Contracts, Legislation, International Law, and the seminar course in Trusts had to be eliminated. Professor Tuttle gave only the seminar course in Constitutional Law three hours a week and the regular course in this subject was assigned to Professor Laylin. The Equity courses which had been given by Professor Laylin were given to Professor Vanneman and the courses which he had to give up were given to other members of the faculty, particularly to Professor Robert E. Mathews, who in consequence had to drop his courses in Legislation, International Law, and Suretyship.

During the year 1934-1935 Associate Professor Arthur T. Martin was on leave of absence in Washington, D. C., connected with the National Recovery Administration. Assistant Professor George F. James was secured to teach his courses and gave most satisfactory service during Professor Martin's absence.

The curtailments in course offerings made necessary by this reduction in staff were unfortunate. It is hoped that they may soon be completely restored. This, however, cannot be accomplished until it is possible to add another full-time instructor.

LIBRARY

Because of reduced appropriation, the Law Library has suffered considerably during the past three years. It has been possible to do little more than keep up the sets of books which are coming out continually. We have very little in the way of new textbooks and statutory materials and have been unable to add other items we have needed for some time. It is hoped that the Law Library from now on may receive what would be considered a satisfactory minimum support.

Attention has been called heretofore to the need of a trained librarian, whose knowledge of the field of legal materials is such as would enable him or her to determine the relative value for our purposes of materials we do not now have, decide which should be added first, and also keep a watch on the market with a view to picking up either at a reasonable price or occasionally at a bargain items which we require. It is to be hoped that the financial condition of the University will soon permit our Library to have the benefit of this much needed service.

At the present time the lighting in the Library is quite unsatisfactory and the situation requires improvement as soon as possible.

SUMMER SESSION

In the summer quarter of 1935 the College of Law held its first real summer session. It was inaugurated in response to a need that the faculty has felt for several years. A good many students desire to pursue their law studies without interruption and wish to make use of the summer in accomplishing this end. A good many are forced by circumstances to work as they study and such students sometimes find it necessary to remain in Columbus to hold essential employment. Some of our ablest students who have interested themselves in such phases of the student bar association work as legal aid work and publication of the Law Journal find it to their advantage to attend summer session in order to lighten the school work of the regular session in which such activities are exacting.

The enrollment was 63. This was disappointing because an attempt had been made through a questionnaire circulated among the students to determine with considerable exactness in advance what the volume of demand for summer instruction among our then eligible student body would be. On this basis, and guessing at the number of others who would come, we concluded that we might expect at least 90. If no attempt had been made to gauge in advance the number that would enroll, the number that finally came would have been considered a satisfactory initial enrollment.

The following courses were offered:

Contracts (Both Terms).....	Mr. Arant
Procedure I (Both Terms).....	Mr. Harris
Private Corporations (Both Terms).....	Mr. Lattin
Insurance (First Term).....	Mr. Lattin
Negotiable Instruments (First Term).....	Mr. Hunter
Real Property II (Second Term).....	Mr. James
Income and Inheritance and Estate Taxation (First Term).....	Mr. James
Federal Procedure (Second Term).....	Mr. Hunter

Administration of Debtors' Estates (Both Terms) .. Mr. Rose

The faculty of the College of Law feel that the summer session fills a real need and should be continued.

LAW JOURNAL

During the school year 1934-1935, the Student Bar Association undertook to sponsor publication of a Law Journal. The faculty had for some time felt that such a publication would be of great value to our school in providing an opportunity for a more worth-while investment of the spare time of our students and in furnishing a challenge to the capacities of our abler students.

The first number of this publication appeared in January, 1934, and two other issues appeared during the year.

From the very beginning the publication made a favorable impression and received a gratifying response from our alumni. Its main financial support is from a quarterly fee of \$1.00 which the student body petitioned the Board of Trustees to add to their other fees. This is hardly adequate to defray the cost of publishing such a magazine as the students are printing. It fell behind somewhat last year and began its operation this year with a deficit for that reason. Discovery of some means of subsidizing it to the extent of about \$250 for this year will be necessary if it is to maintain its present high level.

The faculty sympathized with and encouraged the establishment of this publication. They viewed it as an effective method of ultimately obtaining the kind of a publication that they have recommended establishing for some time but which has been prevented by budget difficulties.

The establishment of this Journal is one of the most significant occurrences in the history of the College of Law. It is the hope of the Faculty that the real publication for which we have been hoping may be started in the fall of 1936.

LEGAL AID CLINIC

The Legal Aid Clinic has now established itself as a recognized social agency of the city. It is the outgrowth of a request by the lawyers of Columbus for assistance in providing aid to indigent persons. In the beginning, legal aid was furnished by a committee of our Student Bar Association in conjunction with the Family Bureau. It soon became clear, however, that the work needed more direct supervision by the Law School faculty for the purpose of improving the service and in order that advantage might be taken of this work as a means of teaching the act of practicing law.

The establishment of the clinic as a part of the law school program was authorized by the Board of Trustees and it was moved to the campus on October 1, 1935. It is open for clients on Monday evenings from 6:30 to 8:30 and on the afternoons of Tuesday to Friday, inclusive, from 1:30 to 4:30. Professor Harris is present at all times that clients are being interviewed to guard against the objection that the student is practicing law.

The clinic has served 191 clients during the four months it has been operating on the campus. The cases are distributed as follows: October, 73; November, 57; December, 26; and January, 35. Fifty-six of these cases are legal problems submitted by students. These are of such a nature that an attorney's fee is not involved. Many social agencies of the city have reported their appreciation of the assistance which the clinic has rendered their clients. The clinic cooperates with the various social agencies and with the lawyers of the city in furnishing this service and does not attempt to supplant the work of those agencies.

The clinic has operated so far under a handicap because of inadequate accommodations. Temporary screens have served as partitions, but the necessary privacy is not secured. At times several clients are being interviewed at the same time and separate rooms are not provided. The present telephone service is inadequate with the single phone, as telephone conversations must be held in the main room and sometimes in the presence of other clients. The clinic has been unable to equip itself with adequate office supplies.

It is hoped that these limitations will soon disappear.

STUDENT ACTIVITIES

One of the healthy signs of change that has appeared in the College of Law within the period covered by this report is a change in the type of activities in which our students have been investing their spare time. With the advent of the Student Bar Association in the spring of 1934, came participation in Legal Aid work referred to above, which was undertaken entirely on a purely voluntary basis and sponsored in the beginning entirely by the Student Bar Association. Then came the Bar Association Journal which originated in the same way with, of course, faculty encouragement and assistance after the undertaking was launched. In addition, the students have organized a book exchange which they operate in the interest of the student body. Every year this saves to our students a substantial sum in the purchase of their books. The Student Bar Association sponsored smokers in which the entire student body have participated and where outstanding persons have been brought in as speakers. It has assumed the responsibility for the operation of the Honor System. All of these activities are taken seriously by the student body and the fact that they are so taken is a sign of a wholesome change in the type of interest and morale of our student body.

However, our students labor in these fine activities under substantial handicaps. They are without adequate quarters in which to work in publishing a journal or even operating a book exchange. There should be released as soon as possible sufficient space for these quarters.

Our students are even without adequate protection for their property, i.e., their coats and books, because we do not have lockers. Books and coats are stolen too frequently and, as we suspect, not by persons who are members of our student body. Provision of adequate lockers is sorely needed.

NEEDS OF THE COLLEGE OF LAW

The need of additional financial support for the Library has been referred to above, as has the urgent need for quarters for student activities, such as the Student Bar Association offices, Law Journal offices, and quarters for the Book Exchange. The limitations on the effective operation of the Legal Aid Clinic have likewise been considered in the paragraph above in which that matter was discussed.

The floors in Page Hall need renewing very badly, or in lieu of this, they need to be covered with heavy linoleum. The lighting of the Library requires immediate change. Students complain increasingly about the poor lighting. Three or four cases have come to my attention during the past quarter in which students allege that the use of glasses has been made necessary by the poor lighting provided. In two other cases, students have stated that they cannot use the Library reading room any longer when artificial lighting is necessary.

Another need in Page Hall is that of additional facilities in the Ladies' Rest Room. It has been called to my attention that there are but two toilets for ladies in the entire building and that they accommodate not only the women staff members in the Music Department and the women employees in the Law College and the Music Department, but also all women students belonging to both and any number of students from all over the campus, due to its convenient location. Not at all infrequently there is but one toilet available because the other is out of order. This makes for extreme congestion and frequently not a little loss of time on the part of employees who have no choice but to go to some other building. In the College of Law where there

is but one employee in the Dean's office, the extent to which this inconvenience reaches is obvious. It is strongly urged that a study be made of this problem by the appropriate person to the end a solution may be speedily found.

The need for an additional instructor in the Faculty has become great. It will not be possible again for Contracts to be given all in one section. At the beginning of the present year 162 students were taught in a room that was equipped for about 112. If next year sees any increase at all in the first-year class, the class cannot be handled in any room in Page Hall. It will be necessary to seek some such place as the Commerce Auditorium which should not be done. The class should be divided into sections again as it was prior to the time when Professor Simes left this faculty. The subject of Contracts, when given in sections, coming as it does four hours a week throughout the year, makes a teaching load that is enough for one person. It is more than can be carried by the Dean, the present instructor, with the various other duties which he is called upon to perform. Hence, it has been necessary to try to handle the subject in one section. It is believed that this will not be possible again in Page Hall, nor desirable anywhere.

Moreover, the establishment of the kind of a Law Journal that we aspire to have in our school will absorb a substantial amount of faculty time and energy and the amount of time and energy absorbed will of course be much greater in the beginning than after the Journal is on a going basis.

It is therefore almost necessary that, in the beginning of the fall of 1936, there be added an additional instructor.

A way should be found for the provision to some extent of student research assistants. Requests come to the Law Faculty almost continuously for research assistance in studies of importance to the public. The latest is a request for assistance in a study of our trial practice and procedure. If the Trustees would create half a dozen positions as research assistants, carrying a stipend of \$250 annually, a part of which would be paid in fees, it would facilitate greatly the faculty's ability to serve such needs. It is strongly recommended that the Board of Trustees create six such assistantships.

THE COLLEGE OF MEDICINE

DEAN JOHN H. J. UPHAM

ENROLLMENT

During the year 1933-34 there were enrolled in the College of Medicine 353 men and 11 women, making a total of 364; during the year 1934-35 there were 361 men and 12 women, totaling 373.

In each year 86 received the degree of Doctor of Medicine. Notwithstanding the increase in the fees for the College of Medicine the number of applicants for admission has continued to be in excess of those who can be admitted, and it has been necessary to continue to restrict the first year class to one hundred as heretofore. The higher qualifications of those selected by the pains-taking work of the Entrance Board is causing fewer failures in the first and second years with resulting larger classes in the third and fourth years. This condition is straining the clinical teaching facilities to the utmost, particularly in view of the budgetary restrictions of the last two years, and suggests the consideration of the necessity of further restricting the number of students admitted to the first year class.

FACULTY CHANGES

The College suffered through death the loss of three of its outstanding faculty members: Professor A. M. Bleile died in August, 1933; Professor F. L. Landacre in the same month; and Professor Ernest Scott in March, 1934.

Professor R. C. Baker was appointed Chairman of the Department of Anatomy in October, 1933, to succeed Professor Landacre.

Dr. Jonathan Forman was appointed Lecturer on Allergy and Dr. R. W. Kissane Lecturer on Cardiology in October, 1933.

Professor F. A. Hartman was appointed Professor of Physiology and Chairman of the Department in July, 1934. Professor Hartman was formerly with the University of Buffalo, and an outstanding scientist. He brought with him a grant of funds from the Carnegie Foundation, and has since received a grant from the Rockefeller Foundation to carry on special research projects.

Dr. H. B. Davidson was appointed Assistant Professor of Pathology, and Dr. T. T. Frost appointed Instructor in Pathology to succeed Dr. Stevenson, resigned.

Professor E. P. Durrant was made Emeritus Professor, October, 1934.

Drs. John V. Horst and Phillip T. Knies were appointed Instructors in the newly organized Morning Clinics of the State Street Dispensary.

PLANT CHANGES AND MAJOR EQUIPMENT

Some re-arrangement of space was made necessary to accommodate the extensive apparatus brought by Professor Hartman. The ground floor of Kinsman Hall was altered by the addition of two "cold rooms" and other space rearranged for his special needs. Further space in the basement of Hamilton

Hall was also allotted for Professor Hartman's use through the courtesy of Dean Semans of the College of Dentistry.

Rearrangement of tables and new tables in the Department of Anatomy on the Fourth Floor of Hamilton Hall has made possible much better provision for the classes in Anatomy for premedical students, dental students and first year medical students.

Through the cooperation of the College of Veterinary Medicine the preparation and cleaning of human bones has been taken from the Fifth Floor of Hamilton Hall to the Veterinary buildings, thus removing a possibility of objectionable odors, and also releasing space for anatomical research.

TEACHING

A committee of the faculty made a careful study of the curriculum in 1933-34 and made some suggestions for better correlation of instruction and continuity of subject study. These recommendations were adopted and after approval by the Council on Instruction have been put in effect. The results have been very satisfactory, and the Committee is continuing its study.

A very considerable addition to the opportunities of clinical instruction has been made in the opening of the morning dispensary service. Two instructors were added to the dispensary staff and each morning all new patients coming to the Dispensary are given a preliminary examination and then referred to the appropriate afternoon clinic. This permits the instruction of senior and junior students in history taking and physical examinations, and has been found very beneficial.

Morning Clinics in Children's Hospital have also been established with added opportunities for clinical instruction.

Junior students have also been added to the hospital ward class sections as observers and clinical clerks, as a means of preliminary training for better and more intensive clinical observation in their senior years.

It is felt that all possible use is being made of the clinical teaching material at present available, but it is hoped that future developments may bring additional greatly needed increase in the hospital facilities.

The budgetary restrictions have imposed very heavy teaching loads and some increase in the personnel is absolutely essential. The morale of the faculty has been excellent, since all feel the necessity of contributing their share in these times of stress, but too long continued demands of overwork will sooner or later seriously impair the efficiency of our instruction.

PARTICIPATION IN OUTSIDE EDUCATIONAL MEETINGS

The College of Medicine has felt that it has a dual responsibility to the State in medical education. The first is naturally the thorough preparation of students of medicine, prospective practitioners of medicine, while the second is the bringing of the advances in modern developments of medicine to those in practice.

This has been done by contributing scientific articles to the medical journals, by presenting scientific programs at reunions of alumni, the holding of clinical demonstrations, and by the participation of members of the faculty in local medical meetings, district, state, and national meetings. This is in the way of University extension teaching; it is entirely a voluntary service at the expense of the individual members of the faculty.

THE CENTENNIAL CELEBRATION

On March 1st, 2nd, and 3rd, 1934, the College of Medicine celebrated the completion of one hundred years of continuous existence since the founding of Willoughby College in 1834.

The celebration consisted of clinics held by members of the faculty in the University Hospital, St. Francis Hospital and in Children's Hospital; laboratory demonstrations in Hamilton and Kinsman Halls; a pageant by students giving dramatic presentation of interesting medical and historical events; evening addresses by distinguished visiting guests and alumni; an address on the Place of Medical Education in the State University by President Rightmire, a convocation, addressed by Dean Henry S. Houghton of Chicago, and the conferring of the honorary degree of Doctor of Science on Henry S. Houghton of Chicago, Torald S. Sollman of Cleveland, and William S. McCann of Rochester, New York.

In addition a very interesting historical exhibit of medical objects was on view, and class reunions and fraternity gatherings were featured. Nearly one thousand alumni registered their attendance.

Department of Anatomy

ROLLO C. BAKER, *Chairman*

CHANGES IN THE HOUSING OF THE DEPARTMENT

Prior to the Autumn Quarter 1934 certain courses in Anatomy, graduate in character, were given in Kinsman Hall. Likewise, the work in cooperation with the Departments of Obstetrics and Gynecology was done in this building. The new arrangement provides for the housing of the entire department in Hamilton Hall occupying the fourth and a part of the fifth floors. This was made possible by freeing a room on the fifth floor for an animal colony and by adding an additional room for storage purposes, skeletons, wet specimens, etc. Certain laboratory changes on the fourth floor have provided more space which is now utilized in carrying the work previously done at Kinsman Hall. Housing the department centrally in this way has been very effective and is a distinct improvement over the former arrangement.

LABORATORY CHANGES AND IMPROVEMENTS

Room 411 has been completely changed. It is now equipped with new tables; each having an independent lighting system which provides perfect illumination for individual students. This laboratory is used only for microscopic work and with its present arrangement accommodates the entire freshman medical class. Heretofore, it was necessary to use two laboratories for the microscopic work. The present plan is far superior in that it assures the entire class of the same directions, instructions, interpretations, and discussions. The technique room, 413, has been modernized and is equipped with built-in compartments providing space for the systematic filing of tissues and cabinets. In the gross anatomy laboratory, room 406, illumination boxes have been installed for X-ray films.

CHANGES IN THE PRESENTATION OF COURSE MATERIAL

This applies more particularly to neuro-anatomy. The first third of the quarter is devoted entirely to the gross—this part of the work being completed

before the microscopic portion is begun. This change has consequently materially reduced the detailed microscopic content and has proved quite effective in correlating the gross and microscopic from a functional point of view. Next year, this course will be further improved by supplementing with motion picture films illustrating the more common types of paralysis together with the general anatomy of the central nervous system that is concerned only with the lesion in question. It should be stated that this is not clinical neurology—but merely a different attack to the problem of teaching and interpreting the anatomy of the central nervous system from a functional and practical point of view. Drs. LeFever and Harding have indicated their approval of such method and for cases they have promised their cooperation. These films, however, when completed may be equally useful and available for the clinician in teaching clinical neurology. Roentgenograms are now being used in teaching certain regions of gross anatomy—especially joints, bursae and injected tendon sheaths and spaces of the hand.

ACTIVITIES

Cooperation with other Departments. During the past two years this department has cooperated with the Departments of Gynecology and Obstetrics, University Hospital, particularly in reference to the problem of the sex hormone. Dr. Knouff, with assistance, has been largely responsible for this project. Although this work may not be regarded as research in the strict sense, since it is concerned with checking and standardizing certain known methods of assaying, it has proved to have been well worth the time and effort—for much information has been obtained, some of which according to the reports from the Division of Gynecology has had a practical bearing from the clinical point of view.

In conclusion, special comment should be made in regard to the Freezing Apparatus, built by the Frigidaire and used for gross frozen section work. The operation of this apparatus has been a complete success in every way, and it has made possible the introduction of sectional anatomy, a course which is now given in this department to the junior medical students. Our sections of the head, extremities and joints are unquestionably some of the finest that can be found in any laboratory.

Dispensary

ELIJAH J. GORDON, *Director*

During the past year 66,915 visits were made at the State Street Dispensary. The previous year there were 62,656 visits. It is interesting to note that the latter figure represented a loss of about 10 per cent from the year 1932-33. This came about through the establishment of the C.W.A. or work relief in 1933. When the people were placed on direct relief there was an immediate increase, the number equaling that previous to the work relief year 1932-33.

IMPROVEMENTS

The greatest improvement in the Dispensary was the establishment of the morning diagnostic clinic in the fall of 1933. This operates for eight months beginning with October. All new patients are required to present themselves at this clinic, where a complete history is taken, physical examination and

indicated laboratory work done. After this is completed the patient is then referred to the respective department where he belongs in the afternoon clinics. This is a great aid to the afternoon dispensary as the patients are classified and ready for reception in the special departments. It has greatly relieved the congestion in the afternoons. Sixteen seniors and a like number of juniors are assigned the morning clinic. The students work in pairs, a junior with a senior. The work is supervised by two instructors and has been a most satisfactory innovation. The clinic averages about fifty patients each morning.

Another improvement has been the establishment of the diabetic clinic on Wednesday afternoons. This is largely under the supervision of Dr. M. P. Kanter who has had special training in this field. It has answered the most crying need of indigent diabetics in the community, and it also has presented a great saving to the Hospital as formerly these patients became so ill that they had to be hospitalized for many days, many dying at homes or in hospitals in coma. About thirty diabetics attend each Wednesday. Most of them are severe cases and require insulin. A dietitian from the University Hospital also assists with the establishing and the instruction of the patients in proper diets. Urinary and blood sugars are determined weekly on each patient.

An arthritic clinic was established last fall. This is in session each Wednesday morning and is in charge of Dr. George Watson. It has averaged about twenty patients each morning. It was established largely for research purposes. A dietitian from the University Hospital is also in attendance. The clinic has aimed at diets, the cystine content of the nails and the administration of colloidal sulphur and other drugs. The complicated chemistry involved is done by the Department of Medical Research. So far the results have not been encouraging, but it is planned to try it for another year.

In 1933-34, 21,137 prescriptions were filled in the Dispensary Pharmacy. In 1934-35, 20,403 prescriptions were filled.

As nearly as can be estimated the Dispensary renders the indigent sick of the City of Columbus and the surrounding counties \$250,000 worth of services each year. The income from fees averages about \$5,000 per year.

Department of Medical and Surgical Research

CHARLES A. DOAN, *Director*

The Department of Medical and Surgical Research was established and organized just five years ago, July 1, 1930, with an original personnel of six. At the present time the active personnel is thirty-six, including fifteen regularly appointed members of the Department, 1 National Research Council and Eli Lilly Fellow, 6 Graduate Nurses on the Research Service, University Hospital, 11 F.E.R.A. student assistants and three voluntary assistants.

The inauguration of the research projects in the beginning carried a major emphasis upon the medical aspects of disease, but with the calling of Dr. George M. Curtis from the University of Chicago as Professor of Surgical Research in October, 1932, the investigations of the Department were expanded to include the wide range of interests brought by Dr. Curtis and his group, and all investigations since that time have been equally divided and shared in their respective medical and surgical implications.

The problems of health and disease in their broader aspects can no longer be considered in the light of any limited discipline only. Their neces-

sities embrace the social as well as all of the natural sciences, so that the ramifications of the problems initiated in this department have extended to practically all of the colleges on this campus and to many institutions and research institutes throughout the country.

COOPERATION WITH OTHER DEPARTMENTS

On this campus the most cordial and enthusiastic cooperation has been manifest in the furtherance of specific investigations. The Department has acted as the integrating unit between Zoology (David Miller) and Orthopedic Surgery (Dr. Harlan Wilson) in the development and application of the treatment of osteomyelitis by fly larvae (maggots). From Zoology also there has been constant and varied cooperation with Laurence Snyder in the problems involving human genetics. With Pediatrics, General Medicine, the Specialties and the Department of Laboratories, University Hospital, there has been maintained a happy and profitable liaison in clinical investigations. With the Department of Physiology (Prof. Hartman) this department has shared in the clinical investigations of diseases involving deficiencies in adrenal cortical hormone, and with Prof. Hitchcock in metabolic problems. Prof. Starin has been an intimate and indispensable collaborator with our group in the bacteriologic phases of our investigations. The Department of Dental Research (Dr. Kitchin) has joined in a number of studies and joint publications where their special interests and technics have necessitated a united approach. The facilities of the Department of Biochemistry have been available in the development of studies dealing with the metabolism of bromine (Professor Clayton Smith) and the relationship of fats to certain disease states, notably the xanthomatoses, tuberculosis and monocytic leucemia (J. B. Brown). The department has had constant generous support and advice from Dean McPherson and Professor Evans and from a number of different men in the Department of Chemistry: through Professor Johnston, studies have been made with heavy water on the metabolism of cells (Warburg apparatus); the spectrophotometric determinations of dyes in studies of plasma volume have been materially advanced through the courtesy and interest of Professor Brode, and the special apparatus under his control; the estimation of the deposits of radio-active substances in tissues has been made by Professor Mack; and the synthesis of certain dyes not obtainable commercially has been sponsored and made possible through Professors Evans and Brode.

The Electrical Engineering Department through the energetic enthusiasm of Professor Dreese assembled and presented to the group a complete high-frequency, short-wave length radiotherm for the induction of artificial fever in experimental animals, intensive studies which preceded by one year the gift from Mr. Kettering of the General Motors Research Corporation and Dr. Walter Simpson of Dayton, of a Frigidaire Hypertherm for the treatment of human patients by means of artificially induced fever. Extensive clinical studies have been pursued throughout the past year in the attempt to evaluate this new method of physical therapy. The cooperation of the State Hospital for the Insane (Dr. Pritchard and Dr. Postle) in these studies, in the selection of clinical material has been greatly appreciated as have been the serological determinations of the State Board of Health Laboratories on the campus through the courtesy of Leo Ey. In Psychiatry numerous valuable integrations in studies of mutual interest and significance have been made (Professor Renshaw). Beginning with the Franklin County Tuberculosis Sanatorium (the

late Dr. Probst and the present superintendent, Dr. Miller) and extending to sanatoria throughout this and adjoining states, there has been the most sympathetic and whole-hearted cooperation in the studies dealing with the medical and surgical management of tuberculosis in which the entire group have been interested for some years. During the past two years these studies have dealt largely with collapse therapy, more particularly thoracoplasty by Dr. Curtis. A close cooperation has been maintained between the investigations of this department and the work under the direction of the Research Committee of the National Tuberculosis Association. Studies of iodine and iron metabolism in conjunction with Animal Husbandry and Dairying (Professor O. Erf) have been mutually beneficial.

Not the least important group in the contributions both cheerfully and generously made toward whatever success may have attended the efforts of this department, is the administrative business and maintenance departments on the campus, which without exception, as individuals as well as organizations, have responded 100 per cent to every need in these directions. An organization attempting to further the discovery and application of human knowledge to the problems of health and disease can be only as strong as its weakest link, and the ultimate goal may only be approached through cooperative effort and adventure all along the line. It is believed that the present integrated, intelligent, unselfish pooling of resources for the better understanding of vital processes, which is being demonstrated on the Ohio State University campus today is unique and promises much for the future.

With the inauguration of the Research Service, University Hospital, May 26, 1933, with carefully selected permanent graduate nursing personnel and freedom to admit patients selected on the basis of the disease problems presented rather than the economic status of the individual, the clinical investigative phases of the work of this Department were placed for the first time on a sound basis. The floor was shared with other activities until March of this year, when all of the facilities of 1-B became available. To date there have been 330 admissions to the Research Service, 1-B. Since April 24, 1934, a Kettering Hypertherm machine for the treatment by fever of selected patients has been installed on floor 1-B and a total of 256 treatments have been given. The facilities of the Kinsman Hall Laboratories are used for the follow up of ambulatory patients under clinical investigation.

ARTICLES AND ADDRESSES

During the past two years 35 papers have been presented from this Department before annual national scientific or medical meetings representing original investigations being pursued; 37 manuscripts have been published and 49 are in press or in preparation. On the average two members from this Department attended each of the national gatherings which convened during the past 24 months, where work akin to ours was presented, an actual total of 71 representatives of the department being in attendance at national scientific assemblies during the past biennium. Local, city, county, and state meetings have been addressed by invitation on some 100 occasions. These trips were made at personal expense and represent at a conservative estimate an expenditure of \$2,000, which emphasizes the necessity and desirability for a travel expense budget for the department.

EXTRA-UNIVERSITY FUNDS

The Department has been fortunate in receiving extra-University funds in pursuit of its activities from several sources: (1) Douglas Smith Foundation Fellow in Surgical Research through the courtesy of the University of Chicago, 6 month—\$900—Versa Cole, Ph.D., chemist; (2) National Research Council Fellow in Medical Research, 1 year and Eli Lilly Fellow in Medical Research, 6 months, \$1800, and \$900 respectively—Dr. Carl Moore, M.D.; (3) \$600 from Wm. Wallace Kincaid in subsidy for an investigation of iodine metabolism in dairy cows; (4) \$600 grant from the National Research Council for technical assistance in pursuing iodine investigations—just received, and to be expended during the coming months; (5) anonymous donor of funds for technical assistance in the Warburg studies of cellular metabolism, \$80.

One cannot reduce to this brief space and to statistical analysis the meaning and the real significance of the activities of the Department of Medical and Surgical Research during the preceding biennium. It is not what has been accomplished, which is all too little when compared with the high standards which the senior personnel of the Department have voluntarily set for themselves, but the promise for the future which present activities justify, that should be the standard of judgment.

Department of Medicine

PROFESSOR ELIJAH GORDON, *Chairman*

During the last biennium all members of the Department of Medicine accepted their assignments in a most satisfactory manner. In spite of the reduced budget, the increased clinical load, and the individual economic hardships suffered each gave of his time unstintingly, many of the members with very little or no compensation.

The members of this department are represented on every hospital staff in the City. Dr. Horton this year is President of the Columbus Academy of Medicine.

Twenty-seven talks of great lay value were given over Station WOSU by twelve members of the department. Ten members addressed forty-seven lay meetings in and about Columbus on Public Health Problems. These included Church, P.T.A., Civic Clubs, High School, Urban League, Fraternity, and Nursing groups.

Members of the Department prepared and read articles on various subjects before the Columbus Academy of Medicine, The Ohio State Medical Association and before most of the County Medical Societies. Following is a list:

- Dr. Hatfield—"Acute Bacterial Endocarditis," Homecoming, 1933; "Choro-Epithelioma Centennial," 1934.
- Dr. Nelson—"Measurements of Renal Function," O.S.M.A., 1935; "Treatment of Heart Failure," Mt. Gilead, O., 1933.
- Dr. Kissane—"Traumatic Heart Disease," "Variations of the Erythrocytes in Heart Disease," Highland, Darke, Richland, Clark, and Hamilton County Medical Societies, 1933-34-35.
- Dr. Wagenhals—"Respiratory Disturbances of Nervous Origin," Clark County Medical Society.
- Dr. Harding—"Traumatic Neurosis," O.S.M.A., 1935, Athens, Knox, Fairfield, and Fayette County Medical Societies, 1934-35.
- Dr. H. R. Mitchell—"The Fall Round Up," *Bambino*, 1935.

- Dr. Edelman—"Infant Feeding," Athens County Medical Society; "Rat Bite Fever," Columbus Academy of Medicine, 1933.
- Dr. Shepard—"Eczema, Ringworm Skin Diseases," Athens, Perry, and Fairfield County Medical Societies, 1933-34-35.
- Dr. Benson—"Early Diagnosis of Tuberculosis," West Virginia Medical Society, 1933; "Tuberculosis," Columbus Academy of Medicine, 1935.
- Dr. VanBuskirk—"Diabetes," Fairfield County Medical Society, 1934.
- Dr. J. E. Brown, Jr.—"Convulsions in Infancy," O.S.M.A., 1935; "Thymus Syndrome," Columbus Academy of Medicine, 1934; "The Vitamins," Children's Hospital Staff, 1935.
- Dr. Knies—"Chronic Bronchitis and Tuberculosis," "Fluoroscopy in Tuberculosis," Columbus Academy of Medicine, 1934.
- Dr. Coons—"Abdominal Diseases," Athens, Canton Medical Society, 1933; "Coronary Thrombosis," Ross County Medical Society, 1934; "Diaphragmatic Hernia," Mt. Carmel Hospital Staff.
- Dr. Baxter—"The Infant's First Year," Knox County Medical Society, 1933; "Safeguards of Child Health," Mt. Vernon Public Health Society, 1935.
- Dr. Horton—"Smallpox, Typhoid, Diphtheria, and Whooping Cough with their prevention," Hardin County Medical Society, 1935; Fifteen talks on health problems before Civic Clubs, Churches, and over radios.
- Dr. Forman—"Allergy in General Practice," Darke County Medical Society, Huron County Medical Society, Crawford County Medical Society; "Food Atopy," Toledo Academy of Medicine; "Acneform Eruptions as a Manifestation of Atopy," Cleveland Allergy Society; "Gastro-Intestinal Atopy," Columbus Academy of Medicine; "Mucous Colitis," American Association for the Study of Allergy.

Department of Obstetrics

ANDREWS ROGERS, *Chairman*

RESEARCH ACTIVITIES

The Department has been engaged in some important cooperative research work—first, the investigation of the behavior of the newborn, which is the first work of its kind, was done in cooperation with the Department of Psychology and is still going on and continuing to make its definite contributions to the knowledge of this important and hitherto uninvestigated subject.

The Department has been engaged in cooperation with the Research Department of Parke Davis and Co. in investigating some of the hitherto unknown alkaloids and other derivatives of the important and complex drug, Ergot. Since the effect of this drug is only upon the uterus, it is peculiarly in the province of obstetrics to investigate it. We are to continue for at least another year in this association with Parke Davis and Co. In return for this we receive all the Ergot (a very expensive drug) that the Department requires free of charge from the Parke Davis and Co.

The Department carried out a very interesting research study in the artificial feeding of the newborn in connection with Moores and Ross who have brought forward a development of Professor Price's of the Department of Agriculture, a method of modifying cow's milk. A contribution to the literature on this subject was made and the work has received much favorable comment from the profession as well as the laity.

Another research problem on the feeding of newborn infants was carried out in connection with The Borden Co. One of its products was thoroughly investigated and found not to have the value that the manufacturers expected to find.

In cooperation with the Department of Genetics was the investigation of possible hereditary characteristics that might be found in the blood of the absolutely newborn. This is a very interesting problem and is still in progress; the work already done seems to point towards something very important.

TEACHING

Placing the first quarter of the didactic lectures in the Spring Quarter of the Sophomore year raised the question as to whether students of such limited experience could get the required amount from didactic lectures in a clinical subject. The experience of last year led to the introduction this year, of a definite oral quiz, one hour each week. This seems to have given excellent results as it gave the opportunity for questions and answers to impress the important points of the didactic lectures in a way otherwise impossible.

A few years ago the Department inaugurated the use of animated pictures and moving pictures in the instructional course and has developed this considerably now having films of its own technique in the management of the fundamental subjects and hopes to be able this year to add to the collection a complete course in the management of more serious conditions and accidents of pregnancy and operative deliveries. There is no question but that the moving picture form of instruction, providing the films are made by the department, constitutes one of the greatest advances in instruction in clinical subjects that has been made.

There have been, according to the Biennium Report, something more than 12,000 visits at the prenatal and postnatal clinics and something more than 2500 deliveries. From this report one can easily appreciate the opportunity that the students enjoy for practical work in obstetrics. This amount of clinical work serves to put the course in practical obstetrics at the top of the list of such courses offered in other schools of this country.

Department of Ophthalmology

ALBERT D. FROST, *Chairman*

The intramural work of the Department of Ophthalmology has continued with the same curriculum as in the previous year except that the number of requests for the elective course in pathology of the eye necessitated the addition of another section. Dr. Perry and Dr. Sage have conducted these courses with the occasional attendance of the chairman.

The chairman has been called upon to conduct one of the instructional courses given at the annual meeting of the American Academy of Ophthalmology and Otolaryngology at its annual meeting in Chicago last summer. The subject was "The Differential Diagnosis of Papilloedema and Papillitis." He has been given a similar assignment on the subject of "Diseases of the Optic Nerve" at this year's meeting to be held in Cincinnati. The chairman was also invited to give two papers at the fifth annual post-graduate course in ophthalmology at the University of Michigan on April 27th. One paper was read on "Papilloedema" and another on "Indications for Various Squint Operations." A paper on "Papilloedema in Its Relation to Sinus Disease" was read before the Detroit Ophthalmological Society on April 26th. These papers have not as yet been published.

Some research studies were carried out on the problem of mechanism of papilloedema in the human but for obvious reasons only occasional opportunity

is afforded for such study. It is the desire of members of the department to do more work in the research field but the facilities and the time are not available at present. The lack of an adequate library in this field necessitated going to Cleveland and New York City libraries by the Chairman, for this study.

DISPENSARY AND CLINICS

The work at the dispensary has continued in the same way as previous years. The number of patients that must be handled by our small staff renders satisfactory progress disappointing. It is the earnest desire of most members of our staff to make contributions in the field of research and writing of papers but the obstacles are many. It is to be hoped that opportunity will soon be afforded to better conduct the department.

The operative clinics regularly held at the University Hospital on Thursday mornings are attracting outside interest. They are attended by many local and out-of-town physicians interested in ophthalmic surgery. It is very gratifying to find that there are several regular attendants which indicates that there is a demand for post-graduate teaching. The urgent requests for the betterment of the department's teaching facilities and for an increase in personnel have been made in previous reports and communications.

Department of Oto-Laryngology

HUGH G. BEATTY, *Chairman*

The work in the Department of Oto-Laryngology during the years 1933-34 and 1934-35 has been done by its members in an interested and loyal manner. There have been no particularly outstanding activities, but the progress of the Department has been satisfactory.

The Chairman has been admitted to the American Laryngological, Rhinological and Otological Society and was recently appointed Otologist for the State School for the Deaf.

The following papers have been presented by members of the Department:

Hugh G. Beatty—"Nasal and Aural Affections of Children," Ohio State Med. Assn., Sept., 1933, Columbus, Ohio

"Endoscopy," Knox County Med. Assn., 1933, Mt. Vernon

"Functional Testing and Hearing Defects," Columbus Ophthalmological and Oto-Laryngological Society, 1933, Columbus

Intra-nasal Infections Associated with Lower Respiratory Tract Disease," 1934, Ashland Co. Medical Society

"Some Remarks on the Pharyngeal Lymphatics and Indications for Tonsil Operation," Stark County Medical Society, Canton, 1935

"Malignancy of Maxillary and Ethmoid Sinuses," Ophthalmological and Oto-Laryngological Society, Columbus, 1935

"The Care of Cleft Palate Patients," American Laryngological, Rhinological and Otological Society, Toronto, Canada, 1935

Dr. Russell Means—"Prophylaxis Measures for Deafness," State Organization for Teachers of the Deaf in Public School Classes, Columbus, 1935

Dr. E. W. Harris—"The Common Cold," Radio Address, WOSU, 1934

"Consideration of Dysphagia," Ear, Nose, and Throat Society, Lima, 1935

Dr. Herbert Emswiler—"Acute Otitis media in Children," Children's Hospital Staff meeting, Columbus, 1934

"Laryngo-Spasm," Columbus Academy of Medicine, Columbus, 1934

"Gradinigo's Syndrome," Columbus Ophthalmological and Oto-Laryngological Society, Columbus, 1934

Department of Pathology

CARL L. SPOHR, *Chairman*

The teaching activities of this Department include courses in Nursing, Dentistry, Applied Optics, Medicine—General and Clinical Pathology and elective courses to medical and graduate students.

In March, 1934, the Department lost by death the services of Dr. Ernest Scott, Chairman of the Department, which position has been temporarily filled by the appointment of Dr. Spohr as Acting Chairman. Two new members were added to the staff, Dr. Davidson and Dr. Frost, both replacing other members. The Department is still short one full-time instructor.

During the past year much time has been spent in cataloguing and labeling museum specimens, and the lantern slide cabinets have been given similar attention, making both more presentable and better available for teaching.

During the past year 300 new slide cabinets of 100 slides each have been prepared for medical students.

Each year an exhibit of interesting pathological specimens has been shown at the Ohio State Fair.

Other activities of the Department are as follows:

Autopsies (May 1, 1933, to May 1, 1934).....	320
Autopsies (May 1, 1934, to May 1, 1935).....	291
Surgical specimens examined (May 1, 1933, to May 1, 1934)....	1432
Surgical specimens examined (May 1, 1934, to May 1, 1935)....	1532
Friedman tests (May 1, 1933, to May 1, 1934).....	289
Friedman tests (May 1, 1934, to May 1, 1935).....	275
Miscellaneous laboratory tests (May 1, 1933, to May 1, 1934)....	5449
Miscellaneous laboratory tests (May 1, 1934, to May 1, 1935)....	5544

Since January 1, 1935, the Department has again assumed running the Wassermann tests for all affiliated hospitals and clinics, excepting University Hospital, and these tests average about 300 per week, requiring most of the time of one of our technical assistants.

With all these non-teaching activities the Department personnel has found little time for research activities, but it is expected that investigations of such a nature will be resumed in the near future.

Department of Physiological Chemistry and Pharmacology

CLAYTON S. SMITH, *Chairman*

CHANGES IN CURRICULUM

Beginning with the Autumn Quarter of 1933 the requirement in materia medica was reduced from 5 credit hours to 2, the requirement in pharmacology left at 5 credit hours, and 2 credit hours of therapeutics were required of junior students. This arrangement called for two recitations per week in materia medica and four in pharmacology as against three recitations in each subject under the old curriculum. Therapeutics was not offered in 1933-34.

The distribution of credit hours among the three subjects was changed in 1934-35 as follows: Materia Medica 3; Pharmacology 4; and Therapeutics 2, the total number of hours remaining the same. This seems to be the best arrangement with the present personnel and equipment. However, two hours

of therapeutics for one quarter in the junior year does not seem to me to be adequate.

The Freshman class in Physiological Chemistry was divided into two Sections for laboratory work with the opening of the fall quarter in 1934, one section meeting Monday afternoon and Thursday morning and the other meeting Tuesday and Saturday morning. With smaller sections the laboratory work can be more carefully supervised.

EQUIPMENT

During the biennium no major pieces of equipment have been secured. Present equipment has been kept in repair. In one or two instances pieces of apparatus have been rebuilt. The department has suffered a loss in equipment in that a laboratory table capable of accommodating four graduate students has been temporarily assigned to the Department of Physiology. Unfortunately should we be allowed an additional laboratory table to replace that lent to the Department of Physiology there is no space at present where the table could be installed.

TECHNICIANS

In my report of 1932 reference was made to inquiries coming to this department from University students and others concerning courses for laboratory technicians. The Arts College Office has designated Dr. Wikoff as adviser to this group of students with the result that the students are getting a better planned curriculum.

PERSONNEL

There have been no additions to the senior staff of this department for the past ten years notwithstanding the fact that the total number of students handled by the department has increased considerably during the decade. Mr. A. W. Bosworth who had been Honorary Fellow in the department since 1930 was made instructor, without salary, beginning October 1, 1934. Mr. Bosworth's primary function is to direct graduate students. His appointment was secured through the Dean of the Graduate School and the Graduate Council.

Another member of the staff devotes all of his time to the teaching of the non-professional groups (Arts, Graduate, Science, Nursing).

The division of materia medica and pharmacology is sadly lacking in personnel there being only one member of the senior staff available for teaching medical students as against two available for chemistry. The number of professional students taught by the division of pharmacology exceed those in the chemistry division by more than 50.

COOPERATION

The department cooperates with the Department of Physiology by granting them the use of certain pieces of research equipment as well as laboratory space in Kinsman Hall. Access to the cold rooms in Kinsman Hall has been helpful in the conduct of this department's research on the chemistry of fats.

With various units of State government the members of the staff have served as advisers or experts in the matters of toxicology and industrial medicine.

There has been excellent cooperation between the hospital and this department. This applies to exchange of consultations with the pathologist and

to the Department of Medicine in supplying clinical material for courses in chemistry.

Each fall the Associate Dean of Women sponsors a Vocational Guidance Week, for women on the campus. In this, the department cooperates by supplying the adviser for women seeking careers in scientific research.

One member of the staff serves by proxy as representative of the College of Medicine on the University Committee of Public Relations. Another staff member is a member of the Council on Instruction.

Another new activity of this department which is not included in the regular teaching quarters is the series of lectures in connection with the University courses in Police Administration. These courses are given during the week between the Winter and Spring Quarters and during the week immediately preceding the opening of the University in the fall. Three such courses so far have been given. This department is responsible for a lecture on legal medicine and toxicology and for a laboratory demonstration of some of the methods employed including blood typing, analytical toxicology, and biological tests. Following this the students are taken to the hospital where Dr. Reinhart discusses a medico-legal postmortem and demonstrates with what material happens to be available. The "students" consist of police officers, sheriffs and their deputies together with a few prosecuting attorneys and coroners from the smaller counties.

Department of Physiology

F. A. HARTMAN, *Chairman*

During the year 1933-34, 1707 students were enrolled during the four quarters. This registration was divided as follows for the various quarters: Summer Quarter 84; Autumn Quarter 540; Winter Quarter 583; Spring Quarter 500. Analysis shows that during the year (four quarters) 1139 were enrolled in the elementary courses; 544 registered in advanced courses, and 24 in the Graduate School.

At the Spring Convocation, 1934, two candidates from this department were granted the degree of Doctor of Philosophy and two were granted Master's degrees.

During the year the department members presented papers and otherwise took an active part in the meetings of the American Physiological Society and the Ohio Academy of Science. The reports given at these meetings have since been published in scientific journals.

As far as possible in the year 1934-35, the course material was arranged to begin with body fluids and circulation and to end with the most complex part of physiology, the central nervous system. The attempt was also made to improve the correlation between the lectures and the laboratory work. A weekly seminar has been conducted throughout the year, in which the staff and advanced students took part. In addition there has been a seminar on the adrenal gland, once or twice a month.

The lectures and laboratory for courses taught to the students in the College of Veterinary Medicine and to the Animal Husbandry students have been transferred to the Veterinary Laboratory Building. However, this still leaves us with inadequate space for the advanced teaching.

With the assistance of The Graduate School we were able to bring Professor G. V. Anrep, from the University of Cairo, here for two lectures. One

lecture was on "Conditioned Reflexes," and the other "Coronary Circulation." Both lectures were well attended.

The registration for the year 1934-35 totaled 1670. This was divided as follows for the various quarters: Summer Quarter 92; Autumn Quarter 522; Winter Quarter 586; and Spring Quarter 470. Analysis shows that during the year (four quarters) 1111 were enrolled in the elementary courses; 539 in advanced courses, and 20 in The Graduate School. The enrollment for graduate work was diminished because of the marked increase in prerequisites. Plans have been formulated for a very decided revision in the advanced courses for next year.

Department of Surgery

V. A. DODD, *Chairman*

UNDERGRADUATE TEACHING

The larger classes of the last two years have had the advantage of our change in curriculum which, by reducing lecture hours, has increased clinical or bedside instruction. This has permitted the third year student to have clinical contacts with the senior, in study of all hospital cases. It is observed that the student's interest is greatly increased and sustained by this change. There is a closer and more complete correlation of the laboratory aids to bedside instruction under this scheme of teaching. Instruction in the Department of Surgery does not differ from that of instruction in other departments and colleges, in that it is not static, and each year sees experimental changes in teaching methods. These changes have brought about in the period under discussion by far the best results in our experience.

GRADUATE INSTRUCTION

In the University Hospital we have increased the opportunity as well as the number of men in post-graduate training as interns and residents by the addition of residents to the subdivisions of surgery. We are now undertaking a four-year training plan which we hope to increase within the next year to a completed five-year plan. By these changes we anticipate turning out one well-rounded man, thoroughly qualified to do general surgery, each year, with many more opportunities for the development of men far beyond the average hospital training. The goal which we are nearing will put the surgical training in University Hospital in the rank assumed by relatively few of the hospitals of the country.

CARE OF SURGICAL PATIENTS IN THE VARIOUS HOSPITALS AND CLINICS

The routine hospital and clinic work accomplished by the limited number of active part-time men making up the department personnel is scarcely appreciated until the figures are compiled.

In the two-year period there have been admitted into the General Surgical Department at University Hospital over 4,000 patients; while in St. Francis Hospital approximately the same number have been cared for, well over a total of 8,000 persons under surgical care. In University Hospital alone there have been 4,834 operations performed. This does not represent the total amount of service rendered by our small staff, inasmuch as the staff has attended or supervised the patients in the Surgical Division of the State Street

Dispensary. In the two-year period there have been 4,019 new cases examined and treated, with revisits totaling 14,497, or a grand total of 18,516 cases.

The tremendous work indicated by the above figures represents the routine labor of a group of fourteen men, the largest burden being carried by half that number, and all on less than half-time pay by the University. This group must needs engage in private practice as their chief means of livelihood. It is little wonder that they find no added time for research and writing. Not alone does the surgical staff contribute this great and valuable service to the University; but, in addition, they have brought to University Hospital alone their private patients, which has produced for the Hospital over eighty-five thousand dollars in income. These patients come to University Hospital as private patients of the staff, and not to the hospital primarily.

RESEARCH

The research activities of the Department have been reported separately to the Dean of the Graduate School. There is an increasing activity in this work, its limitations being largely those which are the result of lack of facility and paid personnel, together with insufficient time to devote to it under the existing exigencies.

St. Francis Hospital

I. B. HARRIS, *Chief of Staff*

The St. Francis Hospital report for the year 1934-1935 shows a total of 2,849 patients with 38,013 hospital days—courtesy 512, private 3,231, semi-private 7,299 and *clinical* 26,971. This large number of clinical hospital days provides an excellent opportunity for the students on ward service in this hospital.

To indicate the type of case admitted, the report shows Medicine 633, Surgery 1,399, Gynecology 372, Genito-Urinary 83, Ear, Nose, and Throat 334, and Eye 28.

The College of Medicine staff at St. Francis Hospital has received excellent cooperation from the Sisters, and has tried in every way possible to make the clinical work of value to the student as well as the patient.

The hospital also provides training for eight interns and the internship service is particularly valuable because of the very active Emergency Service. During the past year, there were 529 Auto accident cases, 1,677 surgical cases (including minor injuries treated in the Emergency Room and not admitted to the Hospital), 185 medical cases and 45 industrial cases, totalling 2,436 cases examined on this service. The St. Francis Hospital interns receive their training in Pediatrics at Children's Hospital and in Obstetrics at University Hospital.

University Hospital

MARGARET M. REILLY, *Superintendent*

The total average hospital occupancy was 62 per cent in the year 1933-1934 and 72 per cent from July 1, 1934, to May 1, 1935. This is a decided increase, despite the fact that we formed the policy of reducing our clinical load during the medical school holidays in order to reduce our expenses. Sixty per cent occupancy is considered by the American Hospital Association as being a very good average. The net income from patients in the year ending

July, 1933, was \$104,628.63. In the year ending July 1, 1934, it was \$105,192.70. The net earnings for the first ten months of this year show an increase of \$5,062.54 over the net earnings for the same period of last year.

Due to the increased cost of supplies and to the increased number of patients cared for, our costs have likewise increased. There is a great increase in the cost of surgical supplies. The Purchasing Department of the Cleveland Hospital Council reports that food costs alone in the past year have increased 40 per cent. Our cost per patient day for the year 1932-33 was \$5.01; for 1933-34 was \$5.37; and for the first ten months of this year is \$5.48. Our increased out-patient clinics have also contributed to the increased cost, as all hospital costs are charged to the in-patient rate.

The Genito-Urinary Clinic has grown rapidly and is held in the hospital daily. Other hospital out-patient clinics showing a large increased service are the Gynecological Clinic and the Bronchoscopic Clinic, which are held weekly. The X-Ray out-patient service has reached the limit of our capacity. This is mainly due to the large amount of X-Ray work done for Dispensary patients. The following out-patient clinics have all been established during the past two years and are showing a steady growth: the Cancer Clinic, the Breast Clinic, and the Epilepsy Clinic. Each is held one morning a week. These clinics all do a large service both in the teaching field and in patient care, but they do cause an increase in expenses.

A new method of investigating the social condition of patients was established last January and while it is a great improvement over the old method, it is far from satisfactory due to the limited personnel.

The Dietary Department has been especially busy during the years 1933-34 and 1934-35. During the year 1933-34, 10,484 special diets were served. The first ten months of this year, 9,218 special diets were served. These are in addition to the regular diets for patients and personnel. The average cost per meal has risen from \$.2282 in 1933-34, to \$.2511 for the first ten months of 1934-35. Dietitians have also assisted at the State Street Dispensary by instructing patients in special diets.

In July, 1933, there were 66 student nurses enrolled, 35 part-time graduate nurses, 14 head nurses, and 14 general duty nurses. In July, 1934, 60 student nurses enrolled, 35 part-time graduate nurses, 12 head nurses, and 24 general duty nurses. On May 1, 1935, we had 39 student nurses, 13 head nurses, 72 part-time graduates, and 32 general duty nurses. The increased number of patients requires the increased nursing load. With the raising of our standards by dropping the three-year course in nursing, the number of students dropped as was expected. However, we expect a gradual increase in this number until we reach our limit. We feel that we are doing a great service to the profession at large and to the State, by giving an opportunity to the graduate nurses to complete their education by our cooperative plan. The improved service to the patients by graduate nurses service is shown by the increase in satisfaction of patients and staff. This is shown not only by the expressions of satisfaction, but also by our increased occupancy of private rooms.

The Intern Service has been greatly improved by addition to and reorganization of the resident staff. Time is allowed for increased study by the staff, and closer supervision of intern work is permitted.

Some new equipment has been added, among the outstanding of which is the supply of Radium, the Fever Therapy Machine, the Elliott-Cutler Trans-illuminator, and the Colposcope. All of which bring an enlarged service to the

public. We have also made a gradual improvement in the appearance of our private rooms by additional furniture. Our aim is to make these rooms more attractive and homelike.

A report of our activities would not be complete without comment on the excellency of our staff. All the physicians on the staff have shown a fine spirit of cooperation which has added to the atmosphere of the hospital.

Reports of the research activities in the College of Medicine have been presented to the Graduate School and will be included in their report.

The above reports show a remarkable activity in view of the budgetary restrictions. Additions to the instructional staff are greatly needed and new equipment, replacements, and buildings will have to be provided in the near future.

COLLEGE OF PHARMACY

DEAN, CLAIR A. DYE

Herewith is submitted the report of the College of Pharmacy for the biennium of 1932-34. During this period the enrollment of the College has continued to gradually increase, the year just ending showing a total of one hundred and eighty-five students registered. This enrollment may be considered very satisfactory when viewed in connection with the unsettled business conditions which have prevailed the last few years. The slight increase in registration for this year is we believe an indication of the increasing confidence in the future outlook for pharmacy. The total number graduating during the year was thirty-three, this representing one of the largest classes to graduate since the adoption of the minimum four-year requirement. While the foregoing number of graduates may seem small, it represents about the number of registered pharmacists that can be absorbed by business without creating an oversupply of registered men.

ACTIVITIES AND ACHIEVEMENTS

In mentioning the activities and achievements of the College for the biennium emphasis should be placed upon the installation of the equipment for the "model drug store." The fixtures and the location of these were designed and located by the University Architect, Professor H. Dwight Smith, and represent the most modern ideas in design and arrangement. The equipment is most complete and the whole outlay is such as to give the maximum amount of display and storage in the limited space available. The equipment has received much favorable comment from the many pharmacists who have visited and inspected the store.

With the foregoing distinct addition to the equipment it is felt that we will now be in position to give the students some greatly needed instruction and experience in dispensing practice. To add to the value of these features it is expected that as soon as possible the work will be placed under the direction of an experienced registered pharmacist. Already a large number of new medicinal, chemical, biological, and pharmaceutical products for study and display have been donated by the various pharmaceutical and chemical manufacturing firms. During the coming year it is hoped that we may be able to add, to the products already displayed, a large number of others. In this way it is planned to have on display and for study products representing all phases of pharmaceutical and medical practice. Through this wide variety of material it is felt that we can give the students a more extended knowledge of the products sold in the average drug store and professional pharmacy.

CURRICULUM

In the past few years there has been much discussion relative to the subjects to be included in a well balanced four-year curriculum, as offered by the various colleges of pharmacy. Naturally these discussions have brought forth many suggestions as well as many different viewpoints. One of the chief

phases of the discussion centered around the question as to what extent commercial subjects should be taught, as well as the nature and content of such courses. As a result of these discussions it was generally agreed that work along commercial lines should be included, but the question as to the extent and the nature of the material is still a matter of further study.

With these and many other points for consideration, it is planned to study our present curriculum in order that it may be brought in conformity with the best ideas of pharmaceutical training. In carrying out this study we hope to have the help and guidance of the Bureau of Educational Research. With their help and advice we feel that a distinct advance in pharmaceutical training will be accomplished.

GRADUATE WORK

In previous reports attention was called to the increasing demand for advanced and graduate work in pharmacy, pharmacognosy, pharmaceutical chemistry, and related subjects. Graduate work in these fields is becoming increasingly necessary for those of our students looking forward to teaching or positions in manufacturing or technical laboratories where advanced degrees are now generally demanded. If we are to meet this demand, provision must be made to offer acceptable courses and provide the facilities necessary to carry on the work. Naturally such offerings will entail some expense but this should not be very great at the outset. It is hoped therefore that some provision may be made to make such offerings possible at an early date and to develop them as rapidly as possible.

As a matter of general announcement it may be stated that the College has cooperated with the State Board of Pharmacy in providing the equipment and laboratory facilities necessary for conducting the practical laboratory examination given to all candidates seeking registration as pharmacists before the Board. This is a service rendered to one of the state licensing boards and makes possible a practical examination of a high order. On numerous occasions we have also provided the facilities necessary for giving the theoretical examinations.

SPECIAL ACTIVITIES

As a general activity attention may be called to the many requests received by the College for analyses and information concerning a greatly diversified list of products. To comply with many of these requests would in many instances involve complicated analyses and require a great deal of time. Every effort however is made to furnish information whenever it is possible to do so. These activities however raise the question as to what extent we should go into such matters as well as the advisability of establishing some sort of an extension service to care for such requests.

Among the various other activities relating to the College may be mentioned the participation by members of the Faculty in various local, state, and national pharmaceutical association meetings and conferences. Professor C. M. Brown has served as Chairman and representative of the Colleges in District Number Four on the Committee on Relations of Boards and Colleges. This district includes the Colleges and Boards of Pharmacy in Illinois, Indiana, Kentucky, Michigan, Ohio, and Wisconsin. As Chairman and representing the schools, he had charge of the program and presented a paper at the meeting which was held at Mammoth Cave, Kentucky, early this year. Miss Mary Collins, stenographer in the College of Pharmacy, was granted permission to

serve as official stenographer of the meeting. The Dean and Professor Brown attended the annual meeting of the American Association of Colleges of Pharmacy held in Madison, Wisconsin, last year. The Dean also attended the meetings of the same association held in Washington, D. C., in May of this year. He also attended the meetings of the Ohio State Pharmaceutical Association, as well as various district and local pharmaceutical meetings in various parts of the state. In fact every effort has been made to keep in close touch with all phases of pharmaceutical education and commercial activities.

In conclusion the Dean wishes to express to the President, the various administrative officers, and other officials of the University his very deep appreciation for the many courtesies and helpful suggestions extended during the biennium just closed.

COLLEGE OF VETERINARY MEDICINE

DEAN, OSCAR V. BRUMLEY

During the year 1933-1934 there were enrolled in the College of Veterinary Medicine 51 first-year or pre-veterinary students, 17 second-year students, 69 third-year students, 54 fourth-year students, and 32 fifth-year students. Thirty-one received the degree of Doctor of Veterinary Medicine at the June commencement. The year 1934-1935 showed a marked increase in the number of students. There were enrolled in the College of Veterinary Medicine 67 first-year students, 80 second-year, 17 third-year, 55 fourth-year, and 54 fifth year. There were 54 graduates who received the degree of Doctor of Veterinary Medicine, one at the close of the autumn quarter, one at the winter quarter, and 52 at the regular commencement exercises in June. The matriculation of students in this College has shown a very marked increase during the biennium. There were quite a number of applicants who could not be accepted due to lack of facilities, personnel, buildings, and general and special equipment. The College has among its student body individuals from many of the various states of the Union and several foreign countries. The increase in enrollment is no doubt due to several factors; a renewed interest in the value of veterinary service both from the point of view of the public health service, which is rapidly widening its sphere of activities, and the service to the live stock industry; the practical fact that the profession is undermanned throughout the United States so that there are splendid opportunities for immediate positions for those who graduate and also many excellent locations for practice; the curriculum at present presents a broad cultural education as well as a professional one. It is extremely gratifying to observe that the introduction of a five-year program not only has increased the total number of students but has attracted those with better fundamental training and education. A larger percentage of students who make application for admission are graduates of other colleges. This entire development is very gratifying to the staff of the College who have spent much time and energy in revising and reorganizing the academic offerings and giving more thought to the methods of teaching both from a theoretical and practical point of view.

SELECTION OF STUDENTS

The number of students at the present time has overtaxed the capacity of the personnel of the College, its equipment and facilities. As a result of this situation a procedure has been approved by all parties concerned whereby a selection of students will be made for those being advanced to the professional courses. Since the number of veterinary colleges is not equal to the number of states, it was decided first of all to map out a logical area for the College of Veterinary Medicine from which it would give preference in the matriculation of students. The states of Ohio, Indiana, Illinois, Kentucky, and West Virginia were considered the logical area. However, students may be selected from other areas at the discretion of the University Examiner. The selection of students will be based on their general fitness for the service, academic ability,

personality, and other qualifications determined after a thorough examination of the applicants. It is generally conceded that fifty students in each of the four years of professional work is the maximum number which can be given adequate education and training. This number, if graduated annually, will provide adequate replacements in the profession in this area and will care for the normal increase in the service.

This provision for the selection of students is another step forward for raising the standards of veterinary education in this area.

FACULTY CHANGES

Due to the general reduction in budgets during the biennium no additions to the faculty were made. As a matter of fact a curtailment of some services was necessary which was very unfortunate. A technician in the Division of Pathology and a graduate assistant in the Division of Anatomy were dropped because of the reduction in budget.

Due to the serious illness of Dr. John Newton Shoemaker it will be necessary to make a replacement in the Division of Surgery. Dr. Shoemaker has been a most valuable member of the staff for the period of twenty-five years. His inability to carry on in his usual efficient manner is regretted by all of his associate staff members. He was always courteous, efficient, and vitally interested in his work giving of his time and energy to the fullest capacity of his ability. It will be necessary to relieve him entirely and place him on the regular retirement basis.

In addition to the retirement and replacement of Dr. John Newton Shoemaker it will be necessary to make additions to the present staff in order to have the college personnel on an equality with those of the other leading veterinary colleges in the United States. Assistants and graduate assistants are absolutely essential in order to carry on the academic work in an efficient manner. This past biennium has demonstrated this fact. The College of Veterinary Medicine has reached its peak of expansion and efficiency and will retrogress unless this program is carried out.

TEACHING

Improvements have been made in teaching during the biennium. Frequent conferences were held in which academic problems were discussed which resulted in a closer cooperation between the instructors, improved teaching methods and naturally a higher standard of scholarship was attained among the student body. This fact is evidenced by a decided improvement in the point-hour ratio of the students. Continued study will be made in regard to teaching methods, course outlines, laboratory techniques, and in many other ways to make the instructional work inspiring and efficient.

CURRICULUM STUDY

It is absolutely essential to continue an intensive study of the curriculum which was begun in 1929-1930 under the direction of Dr. W. W. Charters of the Bureau of Educational Research. The study which was begun at that time is practically ready for publication. Under Dr. W. W. Charters' guidance and direction it has been possible to make such a study in a systematic and constructive manner. This whole program has been of inestimable value not only to the College of Veterinary Medicine of the Ohio State University but has paved the way for other colleges to do likewise and consequently is of value in

raising the standards of all the various colleges of veterinary medicine in this country.

A committee will be continued indefinitely to analyze all material relative to curriculum problems. Changes will be made whenever deemed advisable in order to keep the academic offerings up to standard to meet the ever changing conditions of veterinary medical education.

PERSONNEL WORK

During the biennium much attention has been given to the development of the personnel work of the College. The personnel bureau of the College has grown rapidly not in personnel but in its activities and value to the staff and to the student body as a whole. This bureau is under the direction of the Dean of the College. Originally its development was due to the capable assistance of Dr. W. H. Cowley of the Bureau of Educational Research. Under the personnel bureau a close supervision of the work of all students is possible at all times. Conferences are held at least two times each quarter with all students in the College, a memorandum made of the subjects discussed and filed in a personal folder for each student. The personal folder for each student contains his high school record, his personal memorandum, copies of all conferences with the Dean, College record, and notations made on special forms by the various instructors. The point-hour ratio of each student is kept so that information is available at once for any purpose. We rate this development of the College activities very highly and find these records of great value in solving students problems and also of real value in properly placing the graduate. The study of these records over a period of several years reveals some very interesting data. During the past biennium it has resulted in materially raising the standards of scholarship among the student body. They are constantly alert to the situation and become interested in making a real effort to better their own records from time to time.

It is generally conceded by the teaching staff that such a bureau is of inestimable value to them in obtaining information relative to students, their ability, interest, and academic status. The staff is unanimous in perpetuating such a bureau and even extending its scope and activities. This will be done if possible during the next biennium.

COURSE OF STUDY

At the beginning of the biennium the curriculum of the College of Veterinary Medicine was lengthened to five years. This was done in order to maintain the proper professional educational standards and to provide the student in veterinary medicine with a greater degree of cultural education. This change has permitted the introduction of several fundamental courses which have hitherto been impossible to include in the four-year course of study.

The staff of the College of Veterinary Medicine visualized correctly the value of such a change as it has materially raised the standards of veterinary education within the College and has given much prestige to the institution on the outside. The present-day requirements of graduates in veterinary medicine is much higher than formerly and this important step will do much in increasing the efficiency of its graduates in the various fields of their activities. The staff of the College will give serious consideration during the next biennium to lengthening the curriculum to six years or require two years of cultural work for admission to the professional courses.

EXTENSION WORK

There is no regularly organized extension work in the College of Veterinary Medicine. This is unfortunate as it is necessary for the regular staff to devote much time and attention to correspondence, telephone communications, and personal conferences with professional men and live-stock owners throughout the state. This has developed to the point that it has become part of the regular daily routine work. There has been sufficient work and it is of sufficient importance to the entire citizenship of Ohio to justify developing a regularly organized staff to render this service. The College is handicapped greatly by not being able to carry on this work in a highly satisfactory manner.

RADIO PROGRAM

During the biennium a radio program has been given by the members of the staff of the College. These programs consisted of prepared papers on timely topics of interest to the veterinary profession and the public at large. They were given on Friday, 7:15 P.M. of each week during the regular academic year. The College staff is of the opinion that such an extension service is of real value in extending an educational program to all who are interested. Reports from these programs have indicated that they should be carried on in the future.

Furthermore, as a part of the extension service of the College, members of the staff attended numerous meetings both of a professional and non-technical type in which addresses and papers were presented. Members of the staff were called upon to assist with county agricultural short course programs, to serve as livestock judges at county fairs, and many other functions outside of their regular academic work.

ORGANIZATION OF THE COLLEGE

Unfortunately the College of Veterinary Medicine is organized officially as a single department, but has attempted to operate on an unofficial basis of divisional units. This present organization was undertaken with the thought in mind of eventually having these various divisional units recognized officially as departments. During the biennium this experiment of divisional units was continued but has proved to be unsatisfactory from the point of view of University organization and recognition. It has been a serious handicap from numerous points of view, especially that of our standing as a veterinary college as all first-class veterinary colleges are organized on a departmental basis; beside it reflects seriously on those who are chairmen of the divisional units. It is urgently requested that a departmental organization be approved at once to allow proper organization and development of the College of Veterinary Medicine.

DIVISIONAL ACTIVITIES

During the biennium progress has been made in the clinical program. Additional space has been provided for large animals in the old cattle building, which has permitted this phase of the clinical program to expand in numbers and also in variety of diseases and conditions which are valuable in the instruction of students. Some valuable equipment has been added in the various divisions which has been of great assistance in the diagnosis of diseases and in the presentation of these subjects to the student body. Notable among these items are: X-ray equipment, projectoscopes, U-scope, and other smaller items.

The use of moving pictures as a teaching mechanism during the biennium has proved to be an innovation. Movements of animals, such as lamenesses, operative techniques, study of organs and their functions, are some of the uses made of the films during this period. There is a large field in which this phase of teaching may be developed.

Changes have been effected in the routine teaching work of the members of the staff which have avoided duplication of effort and resulted in a more harmonious presentation to the students.

The members of the staff have taken their work seriously and although handicapped by lack of assistants have carried on to the best of their ability and physical endurance.

The College of Veterinary Medicine is in need of increased personnel, especially as replacement for Dr. J. N. Shoemaker, assistants to help with the routine work and to allow some time for the members to engage in a broader program of research.

DEAN OF MEN

JOSEPH A. PARK

If the initiation of the Tower Club idea was regarded as the outstanding contribution of the office of the Dean of Men for 1933-34 certainly the County Clubs might be so regarded for 1934-35. Organized in December, 1934, with a triple objective, namely, to improve the number and quality of social contacts available to students from practically all of the 88 Ohio counties, to interest them and through them their home communities in the University's case as it came before the General Assembly, and to encourage the best graduates of the home-county high schools to enroll in the University, they have quickly assumed an important part in student life. Largely through the help of devoted members of the faculty and administrative staff some of the clubs have carried on an enjoyable and helpful program.

Cooperation with alumni groups was much appreciated by the home county alumni. The Alumni Secretary reports such activity in seven counties, in two of which the students were responsible for bringing to life long dormant alumni groups. It is our idea that the County Clubs will act as feeders for the local alumni organizations. Intramural participation brought out twenty county basketball teams and several playground-ball teams. The Intramural Department expects to build this up into an all-year program. Many of the clubs entertained members of the General Assembly and other distinguished persons from their home communities during the year.

Many problems remain to be solved before we can say that we are satisfied. We need to work out varied social programs to suit large and small groups, and we need about twenty more leaders who will unselfishly give of their time and effort in this direction. We hope to get under way in October this year instead of waiting until December as we did last year. We have, however, the advantage of a six-month experience on which to build and we expect the County Clubs to really come into their own this next year.

Another activity initiated during the past year was the compulsory auditing of fraternity accounts. For some years we had audited the accounts of those fraternities desiring this service. This was done with a charge of one per cent of receipts for the audit, and a maximum of \$100 per year cost to the chapter. This service was so helpful to the chapters concerned that it was decided to extend it to all our fraternities. With the President's approval, this was begun September 15, 1934. Mr. Delber Kinsel has been in charge of this work and Mr. G. W. Eckelberry has been kind enough to aid setting-up the organization. The sororities have also been audited under direction of the Student Organization Auditor and the Dean of Women.

The fraternity auditing has been entirely self-supporting and the experiences of the year have been highly satisfactory. Little opposition on the part of the 62 chapters was manifested and even those originally opposed have been won over as the year progressed, with but two exceptions. With another year's experience, we hope to have 100 per cent voluntary cooperation. The Fraternity Auditor's report follows:

Fraternity Auditing Department

By September 30, 1935, the Fraternity Auditing Department will have made 600 monthly audits and mailed out 2,450 detailed typewritten reports on the finances of 62 fraternities operating houses on The Ohio State University campus. These fraternities housed approximately one-third of the male population (excluding Columbus residents) of the University, and the respective treasurers thereof received and disbursed nearly \$420,000 during the school year.

To handle and record these funds we have set up a sound bookkeeping system with detailed instructions for each fraternity. In addition to auditing these records we have dealt with, advised, and instructed 120 fraternity treasurers, most of whom were inexperienced in handling group finances, how to manage their respective fraternities on a sound basis and in an ethical manner. By so doing this office has commanded for the University the financial integrity of the fraternities and also helped them to establish better reputations for themselves in the eyes of business houses and the general public. From examination of the records the auditor and his assistant found that 22 groups have improved their credit standings, while 36 have maintained an "A" credit rating for the school year 1934-35. These improved financial conditions of fraternities are supported by the many letters and other communications which have come in to this office during the year, complimenting the University upon its cooperation and the financial supervision given to The Ohio State University fraternities.

The auditor has spent a large portion of his time during the past year in giving advice on fraternity financial matters. An average of 15 fraternity officers and members and 5 business house representatives have been interviewed daily, in person or by telephone.

When the Fraternity Auditing Department was set up to audit all the fraternities, it was put on a self-supporting basis. The budgeted income for 1934-35 was \$4,685.00, based on one per cent of the receipts audited. The expenses to cover three full-time employees and bookkeeping and auditing supplies were budgeted at \$4,276.00. The receipts, for the period September 1, 1934, to July 18, 1935, have actually totalled \$4,660.52. We expect this figure to increase to approximately \$5,010.00 by September 30, 1935; \$740.00 of this total will cover collections for special accounting services given to the fraternities at their request during the school year. The expenses for the same period totalled \$4,184.01, and this figure will probably be increased to about \$4,900.00 by September 30, 1935. This will leave a cash surplus of approximately \$110.00.

The fiscal period for the Fraternity Auditing Department ends September 30, 1935, at which time the books will be audited by the University Auditor and a complete report will be made.

The Auditor for Student Organizations has had a successful year. Her report will be made separately about September 1st.

The demand for student loans has been less this past year than for some years past. This is due to the FERA student aid program. Many of our students who have been attending the University on a narrow financial margin have, through this aid, been relieved of the necessity of borrowing small amounts with which to complete their year's work. We have had this year for the first time the income from Student Court fines turned over to the Loan Fund. This has yielded \$753.00. The *Sun Dial* has turned over \$361.80

to the University loan funds for 1934 and will pay approximately the same amount for 1935. Loan repayments have been quite unsatisfactory and I strongly recommend that a new method of collection be put into operation.

The Student Senate continues to demonstrate its usefulness. With good student leadership, it has completed another successful year. Some of the outstanding features of the year were as indicated in the annual report of the Secretary-Treasurer: Homecoming, student elections, prom decorations, the National Student Federation of America, twilight band concerts, community project awards, high school day, Dads' day, county clubs, traditions week, prospect work, and the football cheering section. The Secretary-Treasurer's report which has already been submitted gives in interesting detail the year's program.

We are losing this year the services of Mr. Fred Strother who for two years has served as Assistant Dean of Men. He has done an excellent piece of work as a glance at his report will indicate. The report follows:

Assistant Dean of Men

The work of the Assistant Dean of Men during the past year can easily be divided into three main divisions: Housing, Fraternity, and General. In the following report I shall deal with these phases in the order named:

HOUSING

The housing program during the year followed the procedure usually used. In the summer of 1934, 292 houses were registered and approved by the Board of Health. They were then inspected by a University inspector, who graded them A, B, or C, according to his judgment as to their desirability and livability. The standard for approved houses was raised somewhat when no "C" class houses were put on the approved list. On August 15, 1934, a mimeographed list was compiled by zones, according to the location of the houses with respect to certain colleges on the campus. There were six zones, comprising the north, northeast, east, southeast, south, and southwest districts, and the list for each zone contained a map of the University district showing the location of the streets named.

The demand for rooms in the Autumn Quarter was much greater than anticipated, the listed facilities being able to accommodate about 1500 students. This year householders are to be asked to register in the hope that a larger list may be compiled.

In the winter, spring, and summer registration, approximately 100 houses were listed each quarter and this number proved entirely sufficient for the demand. In addition to the list of houses for rooming purposes, a large list of apartments and houses is maintained for the use of faculty members and married couples. This is particularly true this summer when the Housing Bureau has assisted many visiting married students and faculty members in finding houses and apartments and a list of nearly 100 such accommodations has been compiled.

In addition to the regular student housing problem, the office has provided temporary quarters for visitors during Farmers' Week, Radio Institute, the Sociological Conference, Educational Conference, and several other meetings.

The usual problems and disputes incident to the housing of several thousand students were handled by the office without particular incident. Only a

very few householders were forced to use the University as a means of collecting money due them for board and room.

Near the close of the Winter Quarter, the Assistant Dean was asked to report to the Personnel Council in regard to the housing problem and this was done.

FRATERNITIES

The general supervision of seventy fraternities is in charge of the Assistant Dean and they take a great deal of his time. While many universities speak of their "fraternity problem," I am happy to report that the fraternity situation at this University is a very good one.

These organizations are much more than mere units in a housing plan or troublesome groups of students dealing with mysterious rites; they are units of University life, closely bound to University tradition and spirit. They require an attitude of sympathetic understanding on the part of the University and one of mutual assistance. Well-supervised, they are storehouses of tradition and loyalty, workshops of experience, fountains of social learning.

Since shortly after the founding of the University, fraternities have solved a part of a very difficult housing problem, I believe that they should be allowed to share in the plans for the future housing of men students. A housing plan without regard for fraternities could easily cause the downfall of many of these groups, while one in which they have a share will strengthen their good points and eliminate many of their weaknesses.

In the autumn of 1934, all fraternities were brought into the fraternity auditing system on a compulsory basis. This caused some dissension at first, but this wore off while the values of the service were becoming evident, so that scarcely any objection was raised at the end of the year.

The usual business of registration of social functions, listing of members, pledge registration, council meetings, etc., passed without incident during the past year, while fraternities aided the University by housing minor sports athletes, high school athletes, band members, 4-H Club members and journalism students during their functions at the University, and by a wholesome support of University projects in general which was more evident than in any year since 1928.

Fraternity membership improved in numbers during the year for the first time since 1930 and the groups, in general, took on a healthier aspect than they have for many years. The total Autumn Quarter membership was 2232 men. One outstanding improvement was that an increase in the number of active members amounting to 172 men was shown in the Spring Quarter as compared with the Autumn Quarter. Last year's record showed an increase of only 43 men. The total membership in the Autumn Quarter represented 31.9 per cent of the male enrollment. The auditing system has been of the greatest assistance to these groups and many of them who had feared that they would have to close their doors have been raised to financial solvency.

The interfraternity councils, although they are in good condition financially should, I feel, have a more constantly changing program, since the novelty of the organization has worn off and interest must be maintained. Speakers on a variety of subjects, sponsoring of social functions under strict supervision, and change in routine would tend to bring new interest into interfraternity affairs.

The Pledge Night and Greek Night banquets were very successful this year, over three hundred pledges enjoying Dean William Sanders talk early

in May, while over a hundred fraternity presidents attended the Greek Night affair to hear an inspiring address by George Starr Lasher, Professor of Journalism at Ohio University.

The Professional Interfraternity Council accomplished several worthwhile things during the year, among which were repair of lockers in the Law Building and installation of adequate lighting in the Law Library. However, this council is not organized so as to bring the member groups closely into contact. Firstly, the fraternities from the four colleges of Law, Medicine, Veterinary Medicine, and Dentistry have very little in common except their housing problems, so that the problems of one group tend to rouse little interest on the part of fraternities in the other. I believe that a much more adequate organization might be formed, allowing intra-college committees to take care of the actual work of the Council, and making the meetings of the entire organization more social and informative than business meetings. Also, I believe that the number of meetings might be decreased.

The administration of Rule 252, passed by the Faculty to enforce payment of claims for board and room, has involved a great deal of work during the year and at times seems to be overworked. However, I do not believe that this is true. There may be some cases where such collection is not necessary, but these are few. The remedies of householders or fraternities when their members or tenants refuse to pay are very inadequate without the help of the University. Ejection is not adequate, since this does not usually bring in the money, but merely prevents further indebtedness. Having paid for food or furnishings, the creditor is left "holding the bag" when a tenant or boarder is ejected.

Legal action is hardly adequate since the individual amounts are usually relatively small and the expense of such action prohibitive.

The assurance that the expense of feeding or quartering students is not likely to result in a loss has led many householders to reduce their rates to students, while fraternities, formerly forced to charge high membership fees to cover losses from bad accounts receivable, have now been able to lower charges until they are comparable with actual expenses per man.

I feel the University has a great responsibility in this regard, not only in teaching its students that their just debts must be paid, but, since merchants readily associate student debts with the University, it gives the institution a much better standing in the community as an organization which insists upon the financial solvency of its students, in effect wards of the University, as far as necessities are concerned.

This past quarter, collections affected by the rule totalled over \$5100 on June 10 and will nearly double that figure before school opens in the fall.

Fraternity scholarship seems still to be on the upgrade, although the averages for the past year have not as yet been compiled. Three resident advisors have been installed at Theta Chi, Pi Kappa Phi, and Delta Theta Sigma and their work is proving of great value. The Assistant Dean prepared a report on their activities during the Winter Quarter.

GENERAL

Part of the general duties of the Assistant Dean of Men was devoted to the registration of 591 social functions, both fraternity, sorority, and all-campus, not to mention dozens of functions sponsored by small student organizations. The registrations were promptly made this year and very few were

late, although chaperons were not as dependable as usual in reporting their intention to attend functions.

Over 1200 papers of various sorts were notarized by the Assistant Dean during the year. A charge of ten cents was made on 186 of these papers, while the rest were notarized free of charge. The bulk of the documents notarized were FERA applications, absentee ballots, duplicate fee cards, and employment applications.

During the Autumn Quarter the Assistant Dean was authorized by the Student Senate to take charge of the student election, since there was suspicion and even proof of fraud in former elections. In this election, a system of checking classes, parents and home addresses was used, and the voting was held without suspicion or proof of fraud.

One of the outside activities engaged in was serving as advisor to Alpha Phi Omega, National Service fraternity. It is composed of former Boy Scouts and they are a dependable and loyal group indeed. They conducted the student election, sponsored a Citizenship Day, helped in the speech and hearing tests, and with the State Band Contest. In addition, they aided in conducting the Spring Festival. When honest, impartial, and able men are needed quickly, this organization is to be relied upon absolutely.

STUDENT COURT

The Student Court continues to enjoy the respect of the student body. Several disputes between student groups have been adjudicated by the Court and several hundred traffic law violators have appeared before it. Reference has already been made to the use of the fines collected for student loans. One could easily philosophize at this point.

The Tower and Buckeye Clubs have become such accepted institutions on this campus it is hardly necessary to state that their experiences have been highly satisfactory. Operating under student leadership with a committee consisting of the University Examiner, the Manager of the Ohio Union, the University Comptroller, and the Dean of Men, acting in a supervisory capacity, 280 men have completed a year's work creditably and economically. The scholastic record has been especially gratifying since the point-hour ratio has been 2.8 as compared with approximately 2.4 as the All-Men's average. With a dozen applications for every available place, it is highly unfortunate that the additional space for 125 more boys provided for in the University's budget was eliminated by the Governor.

The Dads' Association has flourished during the past year under the continuing leadership of Mr. Laybourne. A successful Dads' Day program was carried out with the cooperation of the Student Senate and the Executive Committee had a mid-winter meeting here. By its very nature, this can never be a closely-knit group, yet the individual members when they become interested in the University's program have proven themselves to be powerful influences in their home communities. This organization is only three years old, but by the time another three years have passed it will be the outstanding Dads' Association of the country.

The Council on Student Affairs, which the Dean of Men serves as chairman, met almost weekly throughout the year, concerning itself chiefly with student publications and social life. Mr. W. D. Griffith as advisory business manager (part-time) for student publications was of great assistance to the committee in giving continuity to the business affairs of the publications. All

completed the year with satisfactory financial records and in only one case was there cause for complaint as to editorial content.

Service also on the Commencement Committee, the Committee on Conduct in Examinations, the Personnel Council, the Dormitory Committee, the F.E.R.A. Selection Committee, and the Committee on Student Dramatics drew to some extent upon the time of the Dean of Men, as did also the student organizations to which he serves as adviser, namely, the Student Senate, Sphinx, Romophos, and Phi Eta Sigma, all of which service was enjoyed and we hope was useful.

The writer has been president of the Ohio Deans of Men during the past year, is chairman of the National Association's committee on Honorary Organizations, treasurer of the Ohio Area Y.M.C.A., secretary of the National Student Division Committee of the Y.M.C.A., chairman of the Student Loan Committee of the Columbus Rotary Club, member of the Youth Education Committee of the American Legion of Ohio, has spoken on behalf of the University in connection with alumni affairs, scholarship days, and other affairs at places as widely scattered as New York City and New Orleans, though chiefly, of course, in Ohio, and in general has attempted to maintain the outside contacts which would make him a more valuable citizen of his home community, in this case the campus.

Such activities as counseling with students on delayed payment of fees, visiting those confined to the University Hospital, aiding students who have involved themselves in difficulties of various kinds, as well as advising many more how to keep out, may seem only distantly related to what has been previously written, but we hope to have running through all the activities of this office the feeling among students that the office of the Dean of Men is not more than 10 per cent supervisory and that the 90 per cent advisory relationship will be more highly regarded from year to year. There is still no teacher more efficient than experience and except where harmful we try in this office to let students learn for themselves, which in the final analysis is the only way they do learn. On the theory that nothing should be tolerated around a university except it make a contribution to the total education of the student we are willing to be judged.

THE DEAN OF WOMEN

MRS. ESTHER A. GAW

In this report for the year 1934-1935, it is impossible for me to mention, as their importance demands, many of the things which we have done. I might devote all of the space allotted to this report to describing the Vocational Information Conference for Women Students in the fall of 1934, or in describing the advisory work with the Women's Self Government Association and other women's organizations which takes so much of the time of members of the staff. I might also describe the work entailed in positions which three members of the staff have taken on national committees: namely, that of Miss Zorbaugh, Mrs. Weiss, and myself on committees of the National Association of Deans of Women, and my own work on a national Altrusa committee.

TWO NEW PROJECTS

There were two projects which distinctly had their initiation in the year concerned. The first of these was the firm establishment of sorority auditing under the auspices of the University and carried out by the student auditor. Previously, for at least three years, there had been a more informal type of auditing conducted directly through this office by Miss Zorbaugh which prepared the sororities for the University action. All national officers are now fully reconciled to this action of the University and are cooperating with hearty support. At another time a detailed report of the finances of the sororities could well be carried in the University's Annual Report for the sake of its importance in the history of the University.

The second project is that of the stimulation of musical appreciation in Pomerene Hall. On Saturdays and Sundays, the students who wish may listen to the opera from the Metropolitan in New York and the symphony orchestra from New York. Programs are prepared beforehand and made available to the students. They listen to the music in the pleasant and comfortable surroundings of Pomerene Hall and in the association of a trained musician. This has been a distinct addition to the cultural life of the campus.

HOUSING OF WOMEN

This report will be concerned, however, almost entirely with a consideration of our understanding of the housing of the women at the Ohio State University. In connection with this it is interesting to have before us the actual figures of the attendance of women during the past ten years. I have included here and also in the tables of housing the figures of the Fall Quarter, 1935, although they do not properly come into the report for the year 1934-1935.

	Total Number of Students	Number of Women	Per Cent of Total
Fall Quarter, 1926.....	9377	2833	30.2
Fall Quarter, 1927.....	10183	3075	30.2
Fall Quarter, 1928.....	10412	3084	29.6

Fall Quarter, 1929.....	10655	3118	29.3
Fall Quarter, 1930.....	10852	3085	28.4
Fall Quarter, 1931.....	10795	3109	28.8
Fall Quarter, 1932.....	10166	3014	29.7
Fall Quarter, 1933.....	9449	2928	31.0
Fall Quarter, 1934.....	10159	2870	28.2
Fall Quarter, 1935.....	11417	3155	27.6

Two things are interesting in the above statement. One is the gradual increase of women from 2833 to 3155 in the ten years concerned. The other is the fact that nearly this number of women had been reached by the year 1929-1930, while the actual percentage of women has decreased during the past ten years.

Of the 3155 women students who were in the University in the Fall Quarter of 1935, 2814 are undergraduates. Below I submit an intensive study of the housing of these undergraduates, which has been prepared by Miss Gordon. These figures include regular and professional school undergraduates but do not include special and irregular undergraduates or graduate students. Our figures clear with the figures of the registrar whose total women students in the Fall Quarter of 1935 were 3155 as follows:

Undergraduates registered.....	2814
Undergraduates not registered.....	13
Graduates	298
No stubs from registrar.....	30
Total.....	3155

I submit two tables which give the analysis of the housing of all women students in the Fall Quarter of 1935. In Table I, the capital letters A, B, C, D, E, and F refer to the totals of the women undergraduate students according to the way they are housed. It will be noticed that D gives the out-of-town totals as 1516 and E gives the town totals as 1298. The out-of-town students are defined as those whose parents live outside of Franklin County. The town students are defined as those whose parents live in Columbus or Franklin County and who live with their parents. The problem of housing which faces the University is concerned with the 1516 who come from out of town. I will not go into a detailed analysis of these figures, which I present for their preservation in the history of the University.

I have brought together the figures in Table II in an attempt to state what the housing situation for women on this campus has been in the past and now is. The figures are given for four specific years: those of 1913-1914 from a report of Dean Breyfogle, the first and only statement of women's housing which I have been able to unearth, and those of the last three academic years. In each case, except in the column of Dean Breyfogle's report, these are the figures for the Fall Quarter only. Dean Breyfogle did not state the exact period of her report.

Table II enables me to make these statements. In 1913-1914, of the total 881 women who were registered in the Ohio State University, according to the figures of Dean Breyfogle, 284 or 32 per cent were living isolated in private homes. Seventeen, or 2 per cent, were working for their room and board. There were living in Oxley Hall, St. Hilda's Hall, one sorority house, and a

club, 12 per cent of the total women. To state it a different way, of the 408 out-of-town women which were 46 per cent of the total enrollment of women, 16 per cent were housed under the auspices of the University. It is true that some of the "pockets," as Dean Breyfogle designates the private homes, accommodated four students or more. They doubtless grew into the present form of lodging which we call the University Houses.

A comparison of the changes of percentages in housing between the years 1913-1914 and the past three years shows several interesting tendencies. First taking the totals of 1913-1914 where we find that 46 per cent came from out of

TABLE I

TYPE OF HOUSING	UNDERGRADUATES							SPECS. AND GRADS.	TOTALS
	Non-Professional					Pro- fes- sional	Total		
	Fr.	Soph.	Jr.	Sr.	Total				
<i>University Halls</i>									
a. Mack	59	9	50	26	144	..	144	1	145
b. Neil	150	38	46	10	244	..	244	...	244
c. Oxley	51	12	13	8	84	1	85	2	87
d. Nurses' Home..	...	...	13	7	20	..	20	...	20
A. Total a, b, c, d...	260	59	122	51	492	1	493	3	496
<i>Private Halls</i>									
e. St. Hilda's.....	8	7	4	2	21	..	21	...	21
f. Westminster ...	36	19	18	18	91	..	91	2	93
g. Alumnae Coop..	24	3	1	3	31	..	31	...	31
B. Total e, f, g.....	68	29	23	23	143	..	143	2	145
<i>Houses</i>									
h. Sorority	7	51	45	71	174	..	174	6	180
i. University	80	94	71	74	319	..	319	8	327
<i>Private Homes</i>									
j. Paying	88	70	69	74	301	8	309	94	403
k. Working	38	16	18	6	78	..	78	1	79
C. Total h, i, j, k....	213	231	203	225	872	8	880	109	989
D. OUT-OF-TOWN									
TOTALS A, B, C...	541	319	348	299	1507	9	1516	114	1630
E. AT HOME—TOWN..	465	280	269	264	1278	20	1298	93	1391
F. GRAND TOTAL...	1006	599	617	563	2785	29	2814	207	3021

town and 54 per cent from Columbus, we notice that there has been a steady increase in the proportion of out-of-town students and that this took a great jump in 1935 when the proportion of Dean Breyfogle was almost reversed, giving us 46.1 per cent living at home and 53.9 per cent from out-of-town. The University and Private Halls accommodate now 22.5 per cent of undergraduate women students, while in 1913-1914 they accommodated only 10 per cent of the entire woman student body. In sorority houses we find 6.5 per cent as contrasted with the 2 per cent of Dean Breyfogle. The difference in the proportion of those who lived in Private Homes (paying) in 1913-1914 and in 1935 is not a true difference since the University Houses which evolved out of Private Homes (paying) now house 11.3 per cent. The two together, University Houses and Private Homes (paying) house almost the same number as

the University Halls and Private Halls, the numbers being 628 (22.2 per cent) and 636 (22.5 per cent).

Those students in Private Homes (working) were 2 per cent in 1913-1914. In 1933 they were 5.2 per cent. Figures in my office since 1927 indicate that, during the years 1927 to 1933 inclusive, the students who worked for room and board were consistently 5 per cent of the total undergraduates. In 1934, with the event of F.E.R.A., this proportion decreased to 3.6 per cent, and in 1935, in the second year of federal aid under N.Y.A., the proportion decreased still further to 2.7 per cent. The students prefer work for which they are paid in money rather than work for room and board even though they actually

TABLE II

TYPES OF RESIDENCE	*1913-14		FALL QUARTER 1933-34		FALL QUARTER 1934-35		FALL QUARTER 1935-36	
	No.	%	No.	%	No.	%	No.	%
1. University Halls	73	8	428	17.5	400	15.9	493	17.5
2. Private Halls	15	2	86	3.6	94	3.6	143	5.0
3. Sorority Houses	19	2	178	7.2	167	6.6	174	6.5
4. University Houses .....	...	...	146	5.9	223	8.8	339	11.3
5. Private Homes (paying)	284	32	252	10.2	307	12.2	349	10.9
6. Private Homes (working)	17	2	129	5.2	90	3.6	78	2.7
Types 1-6								
Out-of-Town Total	408	46	1219	49.6	1281	50.7	1516	53.9
7. At Home Total	473	54	1241	50.4	1245	49.3	1298	46.1
GRAND TOTAL	881	100	2460	100.0	2526	100.0	2814	100.0

earn a smaller proportion of their total expenses. One reason is the fact that the work for room and board takes a great deal more time and a second is that work for room and board demands that the student be on call at any moment when she is in the house.

In my office, records such as those given in the two tables above are kept on file not only for the Fall Quarter of each year but also for the Winter and Spring Quarters. We thus have a complete record of the housing of the women and can watch its general tendencies. Through our files we know where every woman student is living and, so far as is humanly possible, the conditions under which she is living. We are acquiring a tremendous amount of material which we hope will be useful to the University when the time comes for a deliberate attempt to meet the housing problem.

MILITARY SCIENCE AND TACTICS

COLONEL GROSVENOR L. TOWNSEND, *P. M. S. and T.*

FACULTY

a. The following named Officers have been detached from the Military Department Faculty since my last annual report by orders transferring them to duty elsewhere:

1st Lieut. John B. Murphy, Field Artillery
1st Lieut. Edward T. Williams, Field Artillery

b. The following named Officers have been assigned to duty at this station:

Major David B. Falk, Jr., Infantry
1st Lieut. William H. Bertsch, Jr., Field Artillery
1st Lieut. James W. Clyburn, Field Artillery

ENROLLMENT

	Autumn Quarter	Winter Quarter	Spring Quarter
1933-1934.....	2661	2438	2178
1934-1935.....	3302	3169	2816

GRADUATES

The following members completed the Advanced Courses in Military Science and were commissioned in the Officers Reserve Corps in their respective branches:

	Autumn Quarter	Winter Quarter	Spring Quarter	Total
Inf.	1	0	35	36
C.W.S.	0	0	5	5
F.A.	2	2	32	36
Sig.	2	2	8	12
Ord.	0	0	1	1
Med.	0	0	13	13
Dent.	0	0	23	23
Vet.	0	0	21	21
TOTAL	5	4	138	147

UNIVERSITY HEALTH SERVICE

J. W. WILCE, M.D., *Director*

The University Health Service has been working along the lines of policy laid down in the "Report of the President's Committee on Physical Education and the Student Medical Service," June, 1934, and takes pleasure in reporting excellent progress.

The immediate proof of improved service and convenience and tone of service is reflected in the fact that an average of 34 more calls per day were made at the Service than in 1934. It is well established that this additional number has been handled with relative ease and we believe with somewhat greater all around satisfaction to the student.

In correlating the annual report with the report above referred to, each original suggestion is noted and below report of progress 1934-35 is made.

1. *Provision:* That the name of the present Student Medical Service be changed to the University Health Service.

Progress 1934-35: This was done in original reorganization.

2. *Provision:* That larger and more adequate quarters be provided for University Health Service.

Progress 1934-35: More adequate quarters have been provided by the generosity of the Administrative Council, in making possible coordinated improvement of facilities, with the help of the university architect. The greatly improved physical setting made possible by the cutting of doors in two walls and the building of ear, nose, and throat, and physical therapy treatment rooms, the moving of metabolism examinations to a separate room, the introduction of a separate emergency room, rearrangement of reception room, and introduction of nurses T.P.R. room, and policy of all offices as clinical and examination rooms have contributed greatly to improved service.

3. *Provision:*

- a. For the present and until such a time as a more complete University Health Service can be established, the supervisory control of the Entrance Examination, the Intramural Sport Examinations, the Varsity Team Examinations, and the Swimming Examinations shall remain to be administered as they are, but
- b. Cooperation between the University Health Service and the Department of Physical Education shall be developed, embracing
 - (a) A more effective use of the duplicate health records,
 - (b) A continuance of the invitation to the Health Service staff to participate in the examination procedures, and
 - (c) An arrangement whereby the physician in the Men's Division be identified more actively and directly with the University Health Service.*

Progress 1934-35: Increased cooperation between University Health Service and Department of Physical Education has been developed. An increased number of Health Service staff members participated in the entrance examination procedures. The military angle of entrance has been handled by reference from Doctor Duffee. This Service will propose to handle this directly this year, through its personnel.

* The Department of Physical Education believes this item (c) is impractical at this time.

4. *Provision:* That general entrance examination records and procedures be made so comprehensive as to fill more adequately all university needs.

Progress 1934-35: A Sub-Committee of the Personnel Council has met several times during the year. While there has been difference of opinion on the handling of entrance examinations, and the degree of record necessary for such examinations, *distinct progress* has been agreed to in the acceptance by Physical Education of an enlarged improved entrance examination blank. This Sub-Committee is still meeting and has not as yet reported its findings on physical examinations to the Personnel Council, for various reasons.

5. *Provision:* That all health records be centralized in the files of the University Health Service.

Progress 1934-35: There has been improvement in this situation, but the tremendous number of developments and adjustments necessary, and the lack of sufficient clerical help prevented this record centralization in the degree conceived in the original recommendation. If a visiting nurse is allowed on the budget of the coming year, which seems possible, under the grant now proposed, greater centralization of records will be possible. This point is made more difficult by the present entrance examination set up.

6. *Provision:* That cooperation with the University personnel services be developed and maintained. The health information necessary to effective personnel service should be made available through one regularly established coordinator on the staff of the health service. The information thus made available would be given only to the officially appointed personnel officers and would be transmitted in confidence and in full view of the legal aspects involved.

Progress 1934-35: Greatly improved cooperation with University personnel services has been developed and maintained. This is a distinct improvement.

7. *Provision:* That all student or non-student food handlers in University food dispensing units, or other units such as living organizations, boarding houses and clubs, shall secure food handlers certificates from the University Health Service. This recommendation is thought wise, but is made contingent upon the possibility of its attainment.

Progress 1934-35: Food handlers have been more thoroughly examined, but no progress has been made in examining food handlers in living organizations, boarding houses and clubs. Progress in this field is part of the plan for next year.

8. *Provision:*

- a. That all students in the College of Education be given a health examination before entering upon practice teaching.
- b. That an adequate health examination be given all students in the College of Education as a prerequisite to endorsement to the State Department of Education for any form of a teaching certificate.

Progress 1934-35: Only 32 examinations for teaching have been made. This recommendation has not been carried out thoroughly. Increased emphasis will certainly be attempted during the coming year.

9. *Provision:* That a committee from the College of Education, the University Health Service, the College of Medicine, and the Ohio Department of Education be established to develop adequate health standards for teaching and to recommend and lead a development among teacher training institutions of the state to the end that teaching candidates may have similar health standards and equal opportunities throughout.

Progress 1934-35: This committee has not been established. Too many other inter-relations have kept the effecting of this excellent recommendation in the background.

10. *Provision:*

- a. That the pre-school examinations and health supervision as now conducted by the Department of Home Economics be organized and supervised by the University Health Service.

- b. That whatever proportion of the current Student Activity and Medical Fee goes to the University Health Service, be assessed those attending this school and the funds thus gained be allotted to the University Health Service.

Progress 1934-35: The health activity of the Department of the Pre-school Home Economics Department is under discussion, at the present time, as between the respective directors. It is entirely possible that progress will be made in this field, before the fall.

11. *Provision:*

- a. That the Health Service of the University School be supervised by the University Health Service.
 b. That whatever proportion of the current Student Activity and Medical Fee goes to the University Health Service, be assessed those attending this school and the funds thus gained be allotted to the University Health Service.

Progress 1934-35: Through the recommendation of the Health Council and the executive order of the President of the University, this can be said to have been effected. The school physician of the University School is now a member of the staff of the University Health Service. A \$1.00 health fee has been assessed, as recommended in 10 b. and 11 b. The details of the understanding of the University School and the University Health Service are on file in the President's office.

12. *Provision:* That the clinical eye service as now conducted by the Department of Applied Optics be placed under the Supervision of the Department of Physics and that duplicate records of such services performed be filed with the University Health Service.

Progress 1934-35: Doctor Alpheus Smith of the Department of Physics informs us that this provision has been brought about. It is hoped that the shift in administration of this eye service will carry with it the meticulous hope of the recommendation that duplicate records of all services performed by the Department of Applied Optics be filed with the University Health Service. The University Health Service has supplemented during the year its eye service by the addition of an ophthalmologist who sees cases, as of the University Health Service, in his down-town office. Improved simple eye tests facilities have been added to all offices in the University Health Service.

13. *Provision:* That the clinical phonetic service as now conducted by the Department of Phonetics be placed under the supervision of the University Health Service.

Progress 1934-35: No progress has been made, although cooperation is excellent.

14. *Provision:* That, wherever practical, University Health Service physicians teach a section of Physical Education 400, Hygiene, in order to correlate the departments of Physical Education and the University Health Service, but that this teaching of Hygiene be continued under the supervision of the Department of Physical Education.

Progress 1934-35: The teaching by University Health Service physicians of sections in Physical Education 400, Hygiene, instead of being continued, as recommended wherever practical, has been discontinued by the Department of Physical Education. Doctor Harding, consultant psychiatrist, gave a lecture on mental hygiene to the Women's Hygiene Section.

15. *Provision:* That appropriate faculty ranking be given certain members of the University Health Service staff.

Progress 1934-35: That provision for faculty ranking of certain members of University Health Service staff, we recognize, was part of the President's original recommendation in the reorganization of 1934, which is an established fact.

16. *Provision:*

- a. That, in view of the functions of health service as outlined hereafter in recommendation No. 18, at least the equivalent of two full-time physicians be acquired at once by the University Health Service.
- b. That a readjustment in the current allocation of funds from the Student Activity and Medical Fee be made in order to defray, in part, the cost of these services.

Progress 1934-35:

- a. It is acknowledged with appreciation that \$2000 was granted for additional medical services and that hospitalization fund was materially increased in 1934-35. This first was divided as between specialists, part-time clinical assistants, and part-time examiners. The service gained approximated the service of one full-time physician but was much richer and more productive of results. At this time, the addition of the extra full-time physician, in addition to the past year's development is recommended and in my mind is fully justified by the 34 per day increase in service rendered.
 - b. While a relatively liberal allocation of funds was made in 1934-35, it is still distinctly urged that an increased and distinctly separate University Health Service fee be allowed. It is suggested that a fee of \$3.00 per quarter, as recommended in Part V, page 18 of the original report, is entirely appropriate, at this time.
17. *Provision:* That a University Health Council be established; this Council to serve in an advisory capacity to the University Health Service on all problems affecting the total health program of the University. This Council shall comprise a representative from each primary health agency on the campus including a representative from each of the following: the College of Medicine, the College of Education, the Department of Physical Education, the School of Social Administration, the Department of Psychology, the Personnel Council, the Safety Committee, and the University Health Service.

Progress 1934-35: It is recorded with appreciation that a University Health Council was established by the President for 1934-35. This Health Council, under the chairmanship of Dr. J. H. J. Upham, Dean of the College of Medicine, has met five times during the past year and made many fine unselfish and guiding advisory suggestions. Appreciation of the Director is expressed to the members of the Health Council, in this annual report. Under the agreement entered into by the University School and the University Health Service, it is recommended that the Director of University School be included in the Health Council for the coming year.

Statistical Report Covering Period June 19, 1934, to June 10, 1935, Inclusive

	Men	Women	Total	Daily Average	Enrollment Entitled to Service
<i>Dispensary Calls</i>					
1933-34.....	14,218	7,624	21,842	84	13,859
1934-35.....	21,909	8,800	30,709	118	14,932
<i>New Patients</i>					
1933-34.....			6,303		
1934-35.....	5,251	2,472	7,723		
<i>Laboratory Service</i>					
	1933-34	1934-35		1933-34	1934-35
B.M.R. tests.....	225	324	Sputum tests.....		37
Urinalysis.....	450	890	Blood counts.....	364	755
Smears.....	397	370	Other lab. tests.....	41	134
<i>Examination Service</i>					
47 examinations by Dr. A. A. Hall					
45 examinations by Dr. L. N. Jentgen					
309 examinations and 305 rechecks by Dr. J. W. Wilce					

<i>Special examinations (students referred from</i>	Men	Women	Total
entrance physical examinations).....	75	0	75
Periodic examinations	40	15	55
Home Management House examinations.....	0	54	54
Food handler examinations.....	41	1	42
Senior examinations	30	10	40
Examinations for teaching.....	7	25	32
Referred by Deans and Junior Deans of colleges.....	25	7	32
Examinations made on students' own volition.....	17	7	24
Referred by University Health Service physicians for examination.....	21	1	22
Psychology examinations	2	8	10
Referred by Applied Optics for examination.....	9	0	9
Referred by Secretaries of colleges for examination.....	4	2	6
Totals.....	271	130	401

Mantoux given

Old type (Nov. 21, 1933, to Jan. 23, 1935, inclusive).....	470
Positive reactions.....	40
P.P.D. type (Jan. 29, 1935, to June 4, 1935, inclusive)....	416
Positive reactions.....	141

Hospital bed patients

	Men	Women	Total		
1934-35.....	148	79	227		
1933-34.....	84	25	109	Contagious cases average days' stay....	12
Hospital cases average days' stay... 3				Contagious disease contacts seen at the	
Contagious cases hospitalized..... 9				Service by Doctor J. A. Beer.....	350

Number of X-rays

Lungs.....	167	Others.....	93
Heart.....	8	Other out-patient service.....	72

Specialists' Service at University Health Service

Psychiatric consultations.....	46	Orthopedic consultations.....	23
Ear, nose, throat consultations	97	Endocrinology consultations.....	27

Special Arrangement with Specialists at Their Respective Downtown Offices

Ophthalmological consultations	18	Neural surgery consultations.....	2
Allergy consultations.....	3	Other references to specialists.....	104

Cost for Specialists' Service

Dr. G. T. Harding — 2-hour weekly service half of fall quarter and entire spring quarter	\$ 225.00
Dr. A. D. Frost — patients referred to downtown office winter and spring quarters	200.00
Dr. Paul Shepard — 3-hour weekly service half of winter quarter and entire spring quarter	200.00
Dr. R. A. Ramsey — 2 hours alternate week service half of winter quarter and entire spring quarter.....	125.00
Dr. H. E. LeFever — patients referred to downtown office spring quarter....	50.00
Dr. John Mitchell — patients referred to downtown office spring quarter.....	100.00
Dr. E. H. Wilson — 1 hour weekly service spring quarter.....	100.00
	<u>\$1,000.00</u>

Cost for Part-Time Clinical Service

Dr. Earl Ryan — 54 hours service during spring quarter.....	\$ 125.00
Dr. Berger Thomas — 23½ hours service during spring quarter.....	47.00
Dr. T. Allenbach — 1½ hours three times per week during winter quarter, 30½ hours during March and April and one-half time service for remainder of spring quarter.....	\$ 323.50
	<u>\$ 495.50</u>

Cost for Extra Examination Service

Dr. A. A. Hall — 3½ hours weekly service during spring quarter.....	\$ 80.00
Dr. L. N. Jentgen — 4 hours weekly service during spring quarter.....	80.00
	<u>\$ 160.00</u>
TOTAL COST FOR PROFESSIONAL SERVICES (Extra)	\$1,655.50

Calls Made at University Health Service by Students in Various Colleges

Applied Optics.....	92	Graduate	2,579
Agriculture	4,807	Law	682
Arts	5,733	Medicine	276
Commerce and Administration	5,723	Pharmacy	404
Dentistry	5,623	Vet. Medicine	493
Engineering	4,297	Total (both columns).....	30,709

Calls Made at University Health Service by Students in Various Classes

Freshman	11,360	Senior	4,646
Sophomore	6,642	Graduate	2,579
Junior	5,482	Total (both columns).....	30,709

Health Council meetings during the year..... 5

E. N. T. ROOM

Treatments — nasal sprays and packs

	1932-33	1933-34	1934-35
Patients treated.....	4,933	5,115	5,655

Recommendation in Order of Annual Budget Provision Presentation

1. (a) It is recommended that appropriate salary increases for staff commensurate with the regular faculty policy be included for University Health Service. The appointment of Doctor Theodore Allenbach as full-time physician for the year 1935-36 at a salary of \$200 per month with \$100 for each of July and August (total \$2,200) is recommended and I have understood agreed to by the President.
- (b) That the regular University School physician personnel be appointed in person of Doctor Earl Baxter at a salary of \$1000 and that necessary transfer of University School funds be made to University Health Service budget for this purpose. It is developed as very desirable that Doctor Baxter again have as his assistant Doctor Ruth St. John. An item of \$300 was recommended for her on the budget presented.
- (c) It is recommended that the income from the University Summer Demonstration School, as conducted by Doctor Zirbes, be transferred to University Health Service account, so that the \$130 may be used to pay personnel doing very satisfactory health demonstration during the first period of summer school. Genevieve Mead was paid \$60 as school nurse, and I have sent through an order for Doctor John Edwin Brown, Jr., for \$40.
- (d) It is recommended that Nursery School funds sufficient to pay a school physician be allotted to the University Health Service account to the amount of \$125 to \$200.

2. (a) It is recommended that the principle of employing as many outside specialists as practical be continued during the coming year. An item of \$1,500 is recommended for this purpose. Part-time examiners and a few dollars for clinical assistants to conserve the principle of spreading University Health Service benefits more broadly among local profession is suggested.
- (b) Clerical assistance by students in the minimum amount of \$200 is necessary to continue the routine of the department. Additional \$750 for clerical assistance is very desirable but possibly not practical at this time.
- (c) Special representation of University Health Service in the University Hospital house physician staff has been agreed to as extremely desirable by Doctor Upham and myself. An item of \$300 is included for this purpose but can be omitted in favor of the present system where the physician that handles hospitalization cases is not directly responsible to the University Health Service.
- (d) A visiting nurse has been recommended for nine months. Conferences with Mrs. Prout of Oxley Hall, Mrs. Gorrell of the Home Economics Department, and brief conferences with Dean Gaw have proven their great interest in the establishment of this service. This item is advanced in the budget as very desirable but could not be included in the \$40,000 tentatively suggested by the administration.
3. (a) (b) Hospital service is recommended on the same basis as the past year with recommendation that this item be considered very elastic, in case of epidemics or exceptional cases.
- (c) The greatest improvement which can be made during the coming year is a University Health Service control program for entering students and follow-ups during the year. Doctor Doan of the Medical Research Department has agreed to do a special blood test which would give Ohio State opportunity for a fine piece of investigation, in case funds, as proposed for X-ray service, are okayed. It is recommended that routine mantoux testing of all entering students be allowed by the administration with necessary X-ray follow up.
5. It is recommended that improved filing and entrance desk service be allowed, as previously discussed with the President. Miss Cockins was consulted in this matter and made fine recommendations, but this item cannot be included in the budget proposed.
8. It is recommended that a trip to the annual meeting of the American Student Health Association be allowed, as last year, for obvious reasons.

SUMMARY OF THE FINANCIAL STATEMENT FOR THE YEAR ENDING JUNE 30, 1935

[A complete detailed Financial Report of the year ending June 30, 1935, is printed in separate form and may be had upon application.]

THE OHIO STATE UNIVERSITY OFFICE OF THE BOARD OF TRUSTEES

Columbus, Ohio.

HON. NEWTON D. BAKER,
*Chairman of Board of Trustees,
The Ohio State University.*

DEAR SIR:

The financial statement presented herein is that part of the Annual Report of the Board of Trustees to the Governor of Ohio, which shows the financial condition of The Ohio State University for the fiscal year ended June 30, 1935.

CARL E. STEEB,
Secretary.

CONSOLIDATED STATEMENT

BALANCE SHEET

ASSETS

CURRENT ASSETS

Cash in Bank and on hand.....	\$ 674,075.21	
Deposits	454.00	
Inventories	295,197.42	
State Appropriations	100,242.48	
		<hr/>
		\$ 1,069,969.11

INVESTMENT ASSETS

State Treasurer	1,161,387.45	
University Treasurer	42,641.93	
		<hr/>
		1,204,029.38

EDUCATIONAL PLANT

Lands	2,399,202.81	
Land Improvements	1,434,676.01	
Ohio Stadium	1,801,049.13	
Buildings	11,139,767.11	
Equipment of Departments.....	5,920,792.06	
		<hr/>
		22,695,487.12

Total Assets		<hr/>	\$24,969,485.61
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LIABILITIES

Current Liabilities	\$ 969,726.63
Contingent Liabilities (State Appropriations)	100,242.48
Endowment Fund Liabilities	
Funds for General Purposes	968,988.38
Funds for Special Purposes	216,227.33
	<hr/>
	1,185,215.71
Trust Fund Liabilities	18,813.67
Physical Plant Liabilities	22,695,487.12
	<hr/>
Total Liabilities	\$24,969,485.61

INCOME AND EXPENDITURES

Cash balance July 1, 1934	\$ 431,366.00
Total Income for year	6,639,630.65
Less funds paid to State Treasurer and not available for the University	4,182.31
	<hr/>
Total Available Income	6,635,448.34
Total Expenditures for year	6,392,739.13
	<hr/>
Balance for the year	\$ 242,709.21
	<hr/>
Cash Balance June 30, 1935	\$ 674,075.21

INCOME

Description	Items	Total
INCOME FROM STUDENTS:		
Tuition and incidental fees	\$ 709,935.85	
Special fees, degrees, etc.	3,313.00	
Gymnasium locker rent	10,684.00	
	<hr/>	\$ 809,932.85
INCOME FROM ENDOWMENTS:		
For general purposes	13,045.88	
For designated purposes	11,093.34	
	<hr/>	24,139.22
FEDERAL AID:		
Land-grant Act of July 2, 1862	31,450.60	
Land-grant—Virginia Military Lands	13,642.84	
Additional Aid—Acts of Aug. 30, 1890, and March 4, 1907	50,000.00	
Agricultural Extension Work—Acts of May 8, 1914, July 24, 1919, and January 17, 1928	296,401.97	
	<hr/>	391,495.41
STATE AID:		
Current Expenses	3,092,055.10	
Capital Improvement		
Agricultural Extension	207,850.05	
	<hr/>	3,299,905.15
GIFTS FOR CURRENT EXPENSES:		
For designated purposes	75,005.76	
	<hr/>	75,005.76
INCOME FROM OTHER SOURCES:		
<i>Agricultural Extension—</i>		
Boys' and Girls' Club Work	2,967.96	
County Agents' Funds from Counties	182,653.76	
Farmers' Institute Funds from Counties	13,825.00	
Rotary	8,161.80	
	<hr/>	207,608.52

FINANCIAL STATEMENT

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Description	Items	Total
<i>Departmental Earnings—</i>		
Applied Optics	3,226.77	
Clinic	3,031.07	
Dental Clinic	36,331.35	
Dispensaries	3,118.29	
Engineering Experiment Station	172.52	
Farm Rotary	94,882.71	
Lantern	8,566.06	
Laundry	2,886.06	
Ohio Biological Survey	98.50	
Starling-Loving Hospital	164,616.30	
University Publications	3,480.97	
Veterinary Clinic	9,552.76	
		329,463.32
<i>For Designated Purposes—</i>		
Class of 1931—Interest on Gift.....	10.31	
Commutation of Uniforms.....	29,800.55	
*Miscellaneous Sales	4,182.31	
Return of Loans.....	827.77	
State Board of Education (Smith-Hughes).....	39,140.65	
Student Activities	63,254.00	
Student Bar Association.....	782.00	
Tutorial Fees	2,297.50	
University Health Service.....	24,171.00	
U. S. Government—P.W.A. Construction Fund.....	18,254.17	
		182,720.26
Total Educational and General.....		5,320,270.49
<i>Dormitories and Dining Halls—</i>		
Buckeye Club	9,320.01	
Pomerene Refectory	38,099.05	
Residence Halls for Women.....	122,569.30	
Stone Laboratory Dining Hall.....	2,009.95	
Tower Club	17,265.71	
University Schools Dining Hall.....	11,938.15	
Grace Graham Walker House.....	2,340.83	
		203,543.00
COMMERCIAL ACCOUNTS:		
Book Store	109,668.29	
Meats Department	33,613.29	
Photograph Department	9,124.61	
Print Shop	78,257.85	
Telephone Account	29,521.61	
Warehouse	487,295.95	
		747,481.60
SUBSIDIARY COMMERCIAL ACCOUNTS:		
Dairy Department—Official Testing	5,331.27	
Journal of Higher Education.....	4,704.14	
		10,035.41
ATHLETIC DEPARTMENT	358,300.15	358,300.15
Total Income		\$ 6,639,630.65
Less funds (*) paid to State Treasurer and not available for the University		4,182.31
Total Available Income.....		\$ 6,635,448.34

CLASSIFIED EXPENDITURES

EXPENSES:

Salaries	\$ 3,667,686.02	
Wages	109,150.00	
Other Services	27,667.25	
Boys' and Girls' Club Work	3,170.00	
Coal and Gas	113,289.05	
Feeding Supplies	26,899.85	
Field Work—Agricultural Extension	115,768.31	
Food Supplies	61,709.11	
Freight and Cartage	7,871.03	
General Supplies	164,835.79	
Light, Power, Water	33,103.35	
Medical and Hospital Supplies	70,487.11	
Printing	59,539.12	
Refund—Military Uniforms	28,058.95	
Rent	15,772.38	
Repairs to Equipment	18,124.80	
Scholarships and Student Aid	14,056.46	
Scientific and Educational Supplies	98,200.51	
State Teachers' Retirement Fund	37,187.83	
Stationery and Office Supplies	74,190.39	
Telephone and Telegraph	33,371.08	
Travel	14,065.68	
Not elsewhere Classified	24,059.28	
Total Expenses		\$ 4,817,763.35

EQUIPMENT:

Apparatus	26,498.04	
Books	51,023.70	
Furniture and Office Equipment	41,538.95	
Livestock	4,343.77	
Machinery and Tools	25,194.31	
Total Equipment		148,598.77

NEW BUILDINGS 37,380.43

ADDITIONS TO BUILDINGS 77,255.60

LANDS 290.44

Total 114,926.47

Total Educational and General \$ 5,081,288.59

DORMITORIES AND DINING HALLS:

Buckeye Club	8,798.57	
Pomerene Refectory	36,451.07	
Residence Halls for Women	127,271.61	
Stone Laboratory Dining Hall	1,937.15	
Tower Club	15,906.03	
University Schools Dining Hall	10,872.66	
Grace Graham Walker House	2,276.39	
Total Dormitories and Dining Halls		203,513.48

COMMERCIAL:

Meats Department	34,719.68	
Photograph Department	7,529.32	
Telephone Account	27,784.42	
University Bookstore	110,398.46	
University Print Shop	73,811.88	
Warehouse	486,211.29	
Total Commercial		740,455.05

FINANCIAL REPORT

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SUBSIDIARY COMMERCIAL:

Dairy Department—Official Testing	5,281.38
Journal of Higher Education.....	4,864.19
Total Subsidiary Commercial.....	10,145.57

ATHLETIC DEPARTMENT	857,336.44
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Total Expenditures	\$ 6,392,739.13
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BALANCE SHEET

JUNE 30, 1934

ASSETS

CURRENT ASSETS:

Cash in Bank and on hand for current expense.....	\$ 674,075.21
Deposits	454.00
Inventories	295,197.42
Auditor of State, Special Appropriations.....	100,242.48

INVESTMENT ASSETS:

State Treasurer (irreducible debt of the State).....	1,161,387.45
Ohio State University Treasurer.....	42,641.93

EDUCATIONAL PLANT:

Lands and Land Improvements.....	5,634,927.95
Buildings	11,139,767.11
Equipment of Departments	5,920,792.06

Total Assets	\$24,969,485.61
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LIABILITIES

CURRENT LIABILITIES	\$ 969,726.63
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CONTINGENT LIABILITIES:

Special State Appropriations.....	100,242.48
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ENDOWMENT FUNDS:

Funds for General Purposes, Invested.....	968,988.38
Funds for Special Purposes, Invested.....	216,227.33

TRUST FUNDS	18,813.67
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PHYSICAL PLANT LIABILITIES.....	22,695,487.12
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Total Liabilities	\$24,969,485.61
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GIFTS FOR GENERAL AND DESIGNATED PURPOSES

The following items are turned into the State Treasury to the credit of Rotary Funds for use by the University:

<i>From Whom</i>	<i>Purpose</i>	<i>Amount</i>
Seth Adams Fund.....	Scholarship in Animal Husbandry.....	\$ 72.37
American Institute of Steel Construction...	Research in Engineering.....	1,725.00
Anonymous.....	Student Loan Fund.....	100.00
Bissell Carpet Sweeper Company.....	Scholarship in Social Administration.....	500.00
Brookings Institute	Study of effects of NRA on manufacturing industries in Ohio.....	5,000.00
Chi Delta Phi Sorority.....	Purchase of books for the Library.....	50.00
Class of 1924.....	Four scholarships for outstanding members of Junior Class in need of financial aid	1,000.00
Climax Molybdenum Company.....	Research in metal wear.....	200.00
Clinton League	Student Loan Fund.....	25.00
Columbus Scholarship Society.....	Student Loan Fund.....	375.00
Crystal Fluorspar Company.....	Research in Engineering.....	250.00
Dairy and Ice Cream Association.....	Fellowship in Dairy Technology.....	400.68
Detroit Alumnae	Student Loan Fund.....	27.22
Economic Forum	Honorarium for lecture.....	125.00
Engineering Experiment Station.....	Research in metal wear.....	9.00
Helen White Eutis.....	Purchase of books for the Library.....	25.00
Globe Iron Company.....	Research in Engineering.....	1,050.00
Graduate Students	Publication of Doctor's Dissertations.....	7,164.45
Home Economics Nursery.....	Purchase of equipment.....	1,721.55
William R. Kenan, Jr.....	Research in Dairy Technology.....	599.32
Eli Lilly Company.....	Purchase of Spectrograph.....	900.00
J. F. Lincoln	Industrial Research	7,500.00
Metropolitan Paving Brick Association...	National Paving Brick Investigation.....	2,600.00
National Aluminate Corporation.....	Fellowship in Chemistry.....	900.00
National Electric Light Association.....	Rural Electrification Project.....	4,000.00
National Malleable Steel Casting Company	Research in metal wear.....	200.00
National Research Council.....	Research in Chemistry and Medicine.....	1,100.00
New York Alumnae.....	Student Loan Fund.....	50.00
Ohio Federation of Women's Clubs.....	Pan-American Scholarship	800.00
Ohio Public Health Association.....	Fellowship in Sociology.....	300.00
Ohio State University Women's Club.....	Student Loan Fund.....	60.00
Bequest of Edward Orton, Jr.....	Research in Ceramics.....	2,000.00
Payne Fund, Incorporated.....	Research in College of Education.....	20,200.00
Phi Beta Kappa.....	Purchase of books for the Library.....	600.00
Procter and Gamble Company.....	Research in Dentistry.....	1,000.00
Rockefeller Foundation	Research in Physiology.....	4,500.00
Rockefeller Foundation	Visiting Professor of Economics.....	2,000.00
Com. in Aid of Displaced German Scholars	Visiting Professor of Economics.....	2,000.00
S. M. A. Corporation.....	Research in Bacteriology.....	1,103.73
Mrs. R. H. Simpson.....	Robert H. Simpson Memorial Prize.....	20.00
Student Court Fines.....	Student Loan Fund.....	699.00
Sun Dial	Student Loan Fund.....	361.80
Tappan Stove Company.....	Research in Engineering.....	150.00
Charles Taylor Sons Company.....	Fellowship in Engineering.....	666.34
Timken Roller Bearing Company.....	X-Ray Research in Chemistry.....	800.00
Uhrichsville Sewer Pipe Company.....	Research in Engineering.....	75.00
Total.....		\$75,005.76

APPENDIX I

SUMMARY OF ENROLLMENT BY CLASSES AND COLLEGES—ACADEMIC YEAR 1934-35

	FRESHMAN			SOPHOMORE			JUNIOR			SENIOR			FIFTH YEAR			SPECIAL			IRREGULAR			TOTAL		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agriculture	282	98	380	146	95	241	97	77	174	116	104	220	..	..	..	3	..	3	8	4	12	652	378	1030
Applied Optics....	26	1	27	29	1	30	39	2	41	16	..	16	..	..	..	..	..	8	..	8	118	4	122	
Arts	596	205	801	329	123	452	271	109	380	209	123	332	..	..	..	5	8	13	16	12	28	1426	580	2006
Arts-Edu.	3	6	9	2	10	12	9	13	22	18	27	45	..	..	..	..	..	...	..	...	32	56	88	
Commerce	604	179	783	419	134	553	265	110	375	289	98	387	..	..	..	10	3	13	5	2	7	1592	526	2118
Education	217	352	569	139	259	398	129	290	419	174	318	492	..	..	..	8	20	28	43	69	112	710	1308	2018
Engineering	417	2	419	363	1	364	291	2	293	252	...	252	6	..	6	7	..	7	8	1	9	1344	6	1350
Pharmacy	53	7	60	51	..	51	35	5	40	32	5	37	..	..	..	1	..	1	5	1	6	177	18	195
Vet. Medicine....	78	3	81	68	1	69	68	3	71	53	...	53	..	..	..	..	..	..	15	..	15	282	7	289
Total.....	2276	853	3129	1546	624	2170	1204	611	1815	1159	675	1834	6	..	1	34	31	65	108	89	197	6333	2883	9216

PROFESSIONAL COLLEGES

Dentistry	47	..	47	48	2	50	48	..	48	57	1	58	..	..	..	..	..	..	..	..	..	200	3	203
Law	132	3	135	76	4	80	60	2	62	..	..	..	..	..	..	..	..	..	..	..	..	268	9	277
Medicine	94	4	98	97	2	99	84	4	88	84	2	86	..	..	..	..	..	..	..	..	..	359	12	371
Nursing .....	..	..	..	..	12	12	..	9	9	..	..	..	..	..	..	..	..	..	1	1	..	22	22	..
	273	7	280	221	20	241	192	15	207	141	3	144	..	..	..	..	..	..	1	1	..	827	46	873
Total.....	2549	860	3409	1767	644	2411	1396	626	2022	1300	678	1978	6	..	6	34	31	65	108	90	198	7160	2929	10089
Graduate School																						830	333	1163
Less Duplicates in Graduate-Medicine.....																						7990	3262	11252
																						8	..	8
																						7982	3262	11244

ENROLLMENT OF STUDENTS FOR THE YEAR 1933-1934 (With Summer Quarter)
YEAR COUNT 1934-1935

	ACADEMIC YEAR			SUMMER QUARTER			TOTAL ACADEMIC YEAR AND SUMMER QUARTER			SUMMER QUARTER DUPLICATES			FISCAL YEAR		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agriculture	652	378	1030	46	103	149	698	481	1179	33	47	80	665	434	1099
Applied Optics	118	4	122	7	2	9	125	6	131	7	1	8	118	5	123
Arts	1426	580	2006	220	122	342	1646	702	2348	127	53	180	1519	649	2168
Arts-Education	32	56	88	11	15	26	43	71	114	7	12	19	36	59	95
Commerce	1592	526	2118	167	68	235	1759	594	2353	108	44	152	1651	550	2201
Dentistry	200	3	203	3	....	3	203	3	206	2	....	2	201	3	204
Education	710	1308	2018	258	750	1008	968	2058	3026	75	198	273	893	1860	2753
Engineering	1344	6	1350	190	....	190	1534	6	1540	163	....	163	1371	6	1377
Law	268	9	277	3	....	3	271	9	280	3	....	3	268	9	277
Medicine	359	12	371	11	....	11	370	12	382	11	....	11	359	12	371
Nursing .....	....	22	22	....	38	38	....	60	60	....	21	21	....	39	39
Pharmacy	177	18	195	25	4	29	202	22	224	20	4	24	182	18	200
Veterinary Medicine	282	7	289	12	....	12	294	7	301	11	....	11	283	7	290
Graduate School	7160	2929	10089	953	1102	2055	8113	4031	12144	567	380	947	7546	3651	11197
	830	333	1163	1129	509	1638	1959	842	2801	247	81	328	1712	761	2473
Total	7990	3262	11252	2082	1611	3693	10072	4873	14945	814	461	1275	9258	4412	13670
Less Duplicates	8	....	8	4	1	5	12	1	13	....	....	....	12	1	13
Number that changed Colleges	7982	3262	11244	2078	1610	3688	10060	4872	14932	814	461	1275	9246	4411	13657
	....	....	....	....	....	....	....	....	....	101	51	152	101	51	152
TOTAL	7982	3262	11244	2078	1610	3688	10060	4872	14932	915	512	1427	9145	4360	13505
Commerce Extension .....	....	....	....	....	....	....	....	....	....	....	....	....	368	94	462
	....	....	....	....	....	....	....	....	....	....	....	....	9513	4454	13,967

YEAR SUMMARY—1934-1935

ENROLLMENT BY STATES AND COUNTIES

	Academic Year	Summer Quarter	Summer Quarter Duplicates	Fiscal Year
Alabama	4	2	....	6
Arizona	2	1	....	3
Arkansas	2	1	....	3
California	8	....	....	8
Colorado	8	1	....	9
Connecticut	24	2	1	25
Delaware .....	....	....	....	....
District of Columbia	6	3	....	9
Florida	7	4	2	9
Georgia	5	5	....	10
Idaho	2	....	....	2
Illinois	35	14	5	44
Indiana	77	16	7	86
Iowa	4	4	1	7
Kansas	6	4	1	9
Kentucky	17	7	3	21
Louisiana	1	1	....	2
Maine	1	....	....	1
Maryland	14	6	1	19
Massachusetts	32	8	5	35
Michigan	20	8	1	27
Minnesota	10	4	2	12
Mississippi	5	2	1	6
Missouri	6	8	1	13
Montana	2	3	1	4
Nebraska	4	3	1	6
Nevada	1	1	1	1
New Hampshire	7	....	....	7
New Jersey	63	4	2	65
New Mexico .....	....	2	....	2
New York	198	27	16	209
North Carolina	5	2	....	7
North Dakota	4	3	....	7
Ohio	10,412	3,436	1,342	12,506
Oklahoma	3	1	....	4
Oregon .....	....	....	....	....
Pennsylvania	100	26	10	116
Rhode Island	1	....	....	1
South Carolina	5	3	....	8
South Dakota	3	1	1	3
Tennessee	9	8	1	16
Texas	8	11	2	17
Utah .....	....	....	....	....
Vermont	2	1	1	2
Virginia	9	5	....	14
Washington	1	....	....	1
West Virginia	58	29	6	81
Wisconsin	12	8	2	18
Wyoming	2	....	....	2
Total States	11,205	3,675	1,417	13,463
Other Countries	39	13	10	42
	11,244	3,688	1,427	13,505

YEAR 1934-1935
ENROLLMENT BY STATES AND COUNTRIES (*Cont'd.*)

	Academic Year	Summer Quarter	Summer Quarter Duplicates	Fiscal Year
Africa	2	....	....	2
Canada	6	....	....	6
Canal Zone .....	....	1	....	1
China	10	6	4	12
England	1	1	1	1
Finland	1	....	....	1
France	3	2	2	3
Germany	3	1	1	3
Hawaii	4	....	....	4
Philippine Islands	3	....	....	3
Puerto Rico	4	1	1	4
South America	1	1	1	1
Uruguay	1	....	....	1
Total Countries	39	13	10	42
United States	11,205	3,675	1,417	13,463
	11,244	3,688	1,427	13,505

ENROLLMENT IN OHIO BY COUNTIES—YEAR 1934-1935

Adams	13	6	1	18
Allen	86	44	9	121
Ashland	29	11	2	38
Ashtabula	68	27	11	84
Athens	24	16	2	38
Auglaize	51	22	8	65
Belmont	99	32	15	116
Brown	16	8	2	22
Carroll	25	11	2	34
Champaign	47	11	4	54
Clark	126	25	10	141
Clermont	20	12	2	30
Clinton	30	16	3	43
Columbiana	91	32	11	112
Coshocton	32	11	3	40
Crawford	66	42	12	96
Cuyahoga	926	155	72	1009
Darke	42	16	3	55
Defiance	29	15	3	41
Delaware	116	61	14	163
Erie	59	11	4	66
Fairfield	132	56	13	175
Fayette	37	13	2	48
Franklin	4134	1207	647	4694
Fulton	16	14	4	26
Gallia	24	27	4	47
Geauga	29	11	4	37
Greene	70	41	8	103
Guernsey	56	27	5	78
Hamilton	125	29	17	137
Hancock	59	32	9	82
Hardin	43	25	7	61
Harrison	23	7	3	27
Henry	24	15	3	35
Highland	46	20	6	60
Hocking	28	14	3	39
Holmes	24	8	3	29

ENROLLMENT IN OHIO BY COUNTIES (Cont'd.)

	Academic Year	Summer Quarter	Summer Quarter Duplicates	Fiscal Year
Huron	42	26	5	63
Jackson	42	21	6	57
Jefferson	96	44	14	126
Knox	75	42	17	100
Lake	56	15	5	66
Lawrence	33	18	5	46
Licking	146	64	18	192
Logan	72	43	14	101
Lorain	122	36	17	141
Lucas	178	38	18	198
Madison	58	8	4	62
Mahoning	273	51	17	307
Marion	83	23	4	102
Medina	46	10	4	52
Meigs	37	15	6	46
Mercer	34	11	4	41
Miami	58	16	7	67
Monroe	32	11	6	37
Montgomery	229	70	22	277
Morgan	23	11	4	30
Morrow	38	20	6	52
Muskingum	119	48	19	148
Noble	28	18	4	42
Ottawa	21	9	2	28
Paulding	11	2	2	11
Perry	46	33	8	71
Pickaway	81	26	8	99
Pike	21	13	4	30
Portage	40	20	6	54
Preble	27	12	1	38
Putnam	17	18	...	35
Richland	100	32	7	125
Ross	77	33	17	93
Sandusky	48	18	3	63
Scioto	95	31	10	116
Seneca	46	25	2	69
Shelby	24	13	2	35
Stark	193	47	13	227
Summit	141	45	14	172
Trumbull	91	47	9	119
Tuscarawas	96	26	15	107
Union	71	31	13	89
Van Wert	38	20	5	54
Vinton	9	5	3	11
Warren	17	4	1	20
Washington	46	26	10	62
Wayne	90	32	9	113
Williams	35	17	4	48
Wood	42	35	5	72
Wyandot	34	8	2	40
Total	10,412	3436	1,342	12,506

RELIGION OF STUDENTS—YEAR 1934-1935

African Methodist	36	18	3	51
Agnostic	2	1	1	2
Baptist	414	143	43	514
Brethren	34	22	4	52
Catholic	1,045	180	96	1,129

RELIGION OF STUDENTS (Cont'd.)

	Academic Year	Summer Quarter	Summer Quarter Duplicates	Fiscal Year
Christian	164	74	19	219
Christian-Congregational	27	11	3	35
Christian Science	122	23	6	139
Church of Christ	234	98	32	300
Church of God	14	5	1	18
Community	85	23	16	92
Congregational	389	114	50	453
Disciple	51	14	3	62
Dunkard	4	2	1	5
Episcopal	410	113	49	453
Evangelical	145	39	11	173
Evangelical Protestant	7	1	....	8
Federated	5	1	1	5
Friends	36	25	10	51
Greek Orthodox	17	....	....	17
Independent Protestant	6	2	1	7
International Bible Students	4	....	....	4
Jewish	874	72	58	888
Latter-Day Saints	9	3	3	9
Lutheran	587	224	70	741
Mennonite	23	22	3	42
Methodist Episcopal	2,791	1,130	387	3,534
Methodist Protestant	53	19	8	64
Moravian	9	....	....	9
Nazarene	3	1	1	9
Non-Sectarian	232	63	41	254
Presbyterian	1,382	509	202	1,689
Protestant	160	41	18	183
Protestant Episcopal	3	....	....	3
Reformed	161	51	10	202
Reformed Jewish	7	....	....	7
Russian Orthodox	1	....	....	1
Serbian Orthodox	3	....	....	3
Seventh Day Adventist	5	6	2	9
Southern Methodist	3	2	....	5
Spiritualist	2	1	1	2
Union	4	1	1	4
Unitarian	25	3	1	27
United Brethren	197	112	22	287
Universalist	13	5	2	16
United Presbyterian	97	58	18	137
None Given	1,349	456	229	1,576
Total	11,244	3,688	1,427	13,505

OCCUPATIONS OF PARENTS AND GUARDIANS—
YEAR 1894-1935

Accountant, Auditors, Cashiers, Clerks, Book-keepers	309	60	40	329
Advertising	26	2	1	27
Apiarist	1	....	....	1
Architects, Draftsmen	34	7	3	38
Army and Navy	31	4	2	33
Attorneys, Judges, Statesmen	180	33	15	198
Auctioneers	1	....	....	1
Automobile Dealers	25	5	3	27
Bakers, Confectioners	36	4	1	39
Bankers, Finance	89	26	10	105

OCCUPATIONS OF PARENTS AND GUARDIANS (Cont'd.)

	Academic Year	Summer Quarter	Summer Quarter Duplicates	Fiscal Year
Barbers, Beauty Culture.....	43	5	3	45
Baseball Players	1	....	....	1
Blacksmiths	11	1	....	12
Bookbinders	2	....	....	2
Brokers, Investment, Securities	26	2	2	26
Bricklayers	14	4	1	17
Business	212	45	30	227
Business Executives	213	51	30	234
Butchers, Meat Dealers	41	2	1	42
Cantors	2	....	....	2
Carpenters, Cabinet Makers.....	93	32	13	112
Chauffeurs	9	1	....	10
Chefs, Cooks, Caterers.....	22	4	2	24
Chemists	20	6	4	22
Clergymen, Rabbi	157	98	34	221
Coal and Ice	19	7	2	2
Cigar Makers	2	....	....	2
Contractors	193	46	21	218
Dairymen	46	4	1	49
Decorators, Painters	66	10	3	73
Dentists	85	17	7	95
Designers, Commercial Artists	15	1	1	15
Detectives	3	....	....	3
Druggists, Pharmacists	64	17	12	69
Dry Cleaners, Pressers	11	....	....	11
Editors, Newspapermen	49	3	1	51
Electricians	52	8	5	55
Engineers (Professional)	204	43	21	226
Engineers (Stationary)	54	11	7	58
Farmers and Ranchers	1,251	592	152	1,691
Filling Station Operators.....	21	10	5	26
Fishermen .....	....	1	....	1
Florists, Gardeners	61	13	7	67
Foremen	93	17	6	104
Fruit Dealers	16	4	2	18
Furriers	10	2	2	10
Garage, Repairing	23	1	1	23
Gas and Fuel	6	3	1	8
Glassworkers	14	3	1	16
Government, State, County, City.....	353	91	44	400
Grain, Hay, Lumber	49	16	4	61
Grocers	97	19	12	104
Hotel and Restaurant Owners and Employees	70	10	5	75
Importers	1	....	....	1
Inspectors	36	13	4	45
Insurance (Salesmen and Claim Examiners).	201	40	23	218
Interior Decorators	13	6	3	16
Inventors	1	....	....	1
Iron and Steel Workers.....	73	16	6	83
Janitors and Maids.....	51	15	4	62
Jewelers, Watchmakers	38	6	3	41
Jobbers	9	....	....	9
Junk Dealers	30	1	1	30
Laborers	159	49	20	128
Laundrymen	8	5	2	11
Ladies' Specialties	10	2	1	11
Leather Workers	1	....	....	1
Librarians	3	2	....	5
Liverymen, Teamsters	1	....	....	1
Livestock Dealers	14	5	2	17

OCCUPATION OF PARENTS AND GUARDIANS (Cont'd.)

	Academic Year	Summer Quarter	Summer Quarter Duplicates	Fiscal Year
Machinists	98	15	10	103
Managers	314	49	31	332
Manufacturers	146	28	14	160
Mechanics	56	15	8	63
Marblesetters	2	....	....	2
Merchants	497	107	52	552
Metal Trades	35	7	1	41
Millers	10	4	1	13
Millworkers, Shopworkers	55	13	8	60
Mine Operators	4	4	2	6
Miners	22	5	2	25
Missionaries	6	3	....	9
Musicians, Artists	26	4	2	28
Oil Producers	15	3	1	17
Opticians, Optometrists	27	3	2	28
Osteopaths, Chiropractors	6	2	1	7
Pawn Brokers	2	....	....	2
Photographers	16	4	2	18
Physicians, Surgeons, Nurses.....	258	55	27	286
Piano Tuners	1	1	1	1
Plasterers	2	1	....	3
Plumbers	27	9	1	35
Politicians	1	....	....	1
Potters	12	4	....	16
Poultrymen	17	6	1	22
Printers, Publishers	48	10	6	52
Railway	517	119	52	584
Real Estate	134	45	19	160
Retired	283	185	60	408
Roofers, Tinnners	5	2	1	6
Rubber Workers	5	4	1	8
Research Workers	8	....	....	8
Salesmen	479	105	52	532
School Officials, Teachers.....	395	119	62	452
Shoe Workers	32	2	....	34
Social Workers and Housemothers.....	17	4	4	17
Students	4	....	....	4
Tailors, Seamstresses	68	11	4	75
Telephone, Telegraph	50	15	6	59
Toolmakers	17	3	1	19
Theater Owners and Operators.....	11	1	....	12
Traffic Managers	8	3	2	9
Transfer and Storage	30	4	3	31
Undertakers	28	7	2	33
Unemployed	69	13	6	76
Upholsterers	4	....	....	4
Veterinarians	55	8	5	58
Violin Makers and Repairers	1	....	....	1
Watchmen, Sextons	15	2	2	15
Well Drillers	6	1	1	6
Wholesale	52	6	4	54
Y. M. C. A., Y. W. C. A., Religious Workers.	7	....	....	7
Mothers with no occupations.....	1,046	438	147	1,337
None given or deceased	1,021	738	233	1,526
Total	11,244	3,688	1,427	13,505

APPENDIX II

BOARD OF TRUSTEES—1934-1935

JOHN KAISER, Marietta.....	Feb. 25, 1915	May 13, 1936
*JULIUS F. STONE, Columbus.....	Mar. 17, 1925	May 13, 1937
LAWRENCE E. LAYBOURNE, Springfield.....	May 14, 1921	May 13, 1938
HARRY A. CATON, Coshocton.....	May 14, 1925	May 13, 1939
M. EDITH CAMPBELL, Cincinnati.....	June 9, 1933	May 13, 1940
HERBERT S. ATKINSON, Columbus.....	Mar. 17, 1925	May 13, 1941
NEWTON D. BAKER, Columbus.....	Dec. 21, 1932	May 13, 1942

* Julius F. Stone served also as a member from May 13, 1909, to March 21, 1917.

OFFICERS OF THE BOARD

NEWTON D. BAKER, *Chairman*
HARRY A. CATON, *Vice-Chairman*
CARL E. STEEB, *Secretary*
CHARLES F. KETTERING, *Treasurer*

ADMINISTRATIVE OFFICERS

For the year ending June 30, 1935

GEORGE W. RIGHTMIRE.....	<i>President</i>
Office—Administration Building, UN-3148; Campus 312.	
Residence—Ohio State University Campus, UN-3148; Campus 274.	
JAMES LEWIS MORRILL.....	<i>Vice President</i>
Office—Administration Building, UN-3148; Campus 628.	
Residence—459 West Eighth Avenue, UN-9427.	
CARL E. STEEB.....	<i>Secretary of the Board of Trustees and Business Manager</i>
Office—Administration Building, UN-3148; Campus 332.	
Residence—198 West Eleventh Avenue, UN-4732.	
GEORGE W. ECKELBERRY.....	<i>Assistant to the President</i>
Office—Administration Building, UN-3148; Campus 380.	
Residence—2023 Collingswood Road, KI-1343.	
EDITH D. COCKINS	
<i>Registrar, University Editor, Secretary of the University Faculty, and Alumni Recorder</i>	
Office—Administration Building, UN-3148; Campus 314.	
Residence—1580 Guilford Road, KI-2726.	
BLAND L. STRADLEY.....	<i>University Examiner</i>
Office—Administration Building, UN-3148; Campus 412.	
Residence—Canal Winchester, Canal Winchester Ex. 71.	
KATHERINE A. VOGEL.....	<i>Executive Clerk</i>
Office—Administration Building, UN-3148; Campus 312.	
Residence—1040 Elmwood Avenue, KI-5883.	
CHARLES A. KUNTZ.....	<i>Comptroller</i>
Office—Administration Building, UN-3148; Campus 332.	
Residence—123 Jeffrey Place, LA-3603.	

- FLORIS D. HANE.....*Cashier*
Office—Administration Building, UN-3148; Campus 372.
Residence—373 Thirteenth Avenue, WA-1054.
- JOSEPH A. PARK.....*Dean of Men*
Office—Administration Building, UN-3148; Campus 283.
Residence—1474 Doone Road, KI-1702.
- ESTHER ALLEN GAW.....*Dean of Women*
Office—Administration Building, UN-3148; Campus 480, 238, 226.
Residence—60 Jefferson Avenue, MA-2692.
- EMMA E. PROUT.....*House Superintendent, Residence Halls*
Office—Oxley Hall, UN-3148; Campus 346.
Residence—Mack Hall, UN-3148; Campus 264.
- EDWARD S. DRAKE.....*Manager of Ohio Union*
Office—Ohio Union, UN-3148; Campus 273.
Residence—2094 Neil Avenue, UN-4073.
- HAROLD K. SCHELLENGER.....*Director of News Bureau*
Office—Administration Building, UN-3148; Campus 491.
Residence—137 West Ninth Avenue, UN-4073.
- WILLIAM C. MCCracken.....*Chief Engineer and Superintendent of Buildings and Grounds*
Office—Service Building, UN-3148; Campus 428, 517.
Residence—2005 Berkshire Road, KI-4669.
- RAY M. ROYER.....*Purchasing Agent*
Office—Administration Building, UN-3148; Campus 374, 375.
Residence—1828 Arlington Avenue—KI-4063.
- FRED E. JONES.....*Director of Stores and Receiving Department*
Office—Service Building, UN-3148; Campus 354, 355, 356.
Residence—255 Oakland Park Avenue, LA-3461.
- CHESTER W. MCCLINTOCK.....*Storekeeper*
Office—Chemistry Building, UN-3148; Campus 228, 306.
Residence—232 Glenmont Avenue, LA-4070.
- H. DWIGHT SMITH.....*University Architect*
Office—100 Brown Hall, UN-3148; Campus 361.
Residence—1950 Arlington Avenue, KI-3542.
- GEORGE H. SIEBERT.....*Manager of University Bookstore*
Office—Derby Hall, UN-3148; Campus 511.
Journalism Building, UN-3148; Campus 275.
Administration Building, UN-3148; Campus 374, 375.
Residence—2239 Fairfax Road, KI-1342.

CHANGES IN FACULTY

NEW APPOINTMENTS 1934-1935

- Marjorie BatchelderAssistant ProfessorFine Arts
- 1st Lt. Charles C. Blackeney.....Assistant ProfessorMilitary Science
- James Grimes, Jr.....Assistant ProfessorFine Arts
- Frank A. Hartman.....ProfessorPhysiology
- Harold L. Hazen.....Assistant ProfessorElectrical Engineering
- 1st Lt. John Hinton.....Assistant ProfessorMilitary Science
- Hurlbut S. Jacoby.....Director of Industrial Research and Field
Director Engineering Experiment Sta-
tionEngr. Exp. Station
- George F. James, Jr.....Acting Assistant Professor.....Law
- Catherine Landreth.....Assistant ProfessorHome Economics
- Stockton RaymondProfessorSocial Administration

Arthur Salz	Professor	Economics
Francis A. Schmidt	Professor	Physical Education
Hans Sperber	Lecturer	German
LeRoy Tucker	Assistant Professor	Mechanics
Charles C. Weideman	Associate Professor	University School
1st Lt. Ellis V. Williamson	Assistant Professor	Military Science
Brayton F. Wilson	Acting Assistant Professor	Business Organization
James C. Yocum	Assistant Professor	Bu. of Bus. Research

PROMOTIONS IN RANK 1934-1935

James A. Beer	Associate Physician to Assistant Professor of Medicine	Un. Health Service
Casper H. Benson	Instructor to Assistant Professor	Medicine
Harold W. Bibber	Associate Professor to Professor	Electrical Engineering
Henry J. Bitterman	Instructor to Assistant Professor	Economics
Viva Boothe	Associate Professor to Professor	Bu. of Bus. Research
Arthur M. Brant	Assistant Professor to Associate Professor	Mineralogy
Paul Bucher	Associate Professor to Professor	Mechanical Engineering
Edgar C. Clark	Instructor to Assistant Professor	Mechanics
Lloyd A. Cook	Instructor to Assistant Professor	Sociology
William H. Cowley	Assistant Professor to Associate Professor	Bu. of Edu. Research
Edgar Dale	Assistant Professor to Associate Professor	Bu. of Edu. Research
Daisy Davis	Instructor to Assistant Professor	Home Economics
Francis W. Davis	Instructor to Assistant Professor	Obstetrics
Horace B. Davidson	Resident Pathologist to Assistant Professor	Pathology
Ralph L. Dewey	Assistant Professor to Associate Professor	Economics
William E. Dickerson	Assistant Professor to Associate Professor	Commerce Extension
Hilda Dierker	Instructor to Assistant Professor	Music
Linden F. Edwards	Assistant Professor to Associate Professor	Anatomy
J. Hoffman Erb	Instructor to Assistant Professor	Dairy Technology
William L. Everitt	Associate Professor to Professor	Electrical Engineering
James M. Foley	Associate Physician to Instructor of Medicine	Un. Health Service
Samuel B. Folk	Assistant Professor to Associate Professor	Mechanics
James F. Fullington	Assistant Professor to Associate Professor	English
Ewen Gillis	Instructor to Assistant Professor	Pharmacy
Sada A. Harbarger	Assistant Professor to Associate Professor	English
Lela Hardy	Instructor to Assistant Professor	Music
George F. Henning	Assistant Professor to Associate Professor	Rural Economics
Katherine F. Hersey	Assistant Professor to Associate Professor	Physical Education
Cedric E. Hesthal	Instructor to Assistant Professor	Physics and Astronomy
Clifford L. James	Assistant Professor to Associate Professor	Economics
Earl G. Jones	Assistant Professor to Associate Professor	Dentistry
Lawrence D. Jones	Assistant Professor to Associate Professor	Engineering Drawing
Paul C. Kitchin	Assistant Professor to Associate Professor	Dentistry
Walter R. Krill	Instructor to Assistant Professor	Veterinary Medicine
George E. Large	Assistant Professor to Associate Professor	Civil Engineering
Norman D. Lattin	Associate Professor to Professor	Law
James O. Lord	Assistant Professor to Associate Professor	Metallurgy
Allen P. McManigal	Assistant Professor to Associate Professor	Engineering Drawing
Cyrus C. MacDuffee	Associate Professor to Professor	Mathematics
Arthur F. Martin	Assistant Professor to Associate Professor	Law
Marie K. Mason	Instructor to Assistant Professor	Phonetics
Bernard S. Meyer	Assistant Professor to Associate Professor	Botany
Hermann C. Miller	Associate Professor to Professor	Accounting
Francis L. Morison	Instructor to Assistant Professor	Rural Economics
Harvey V. Moyer	Assistant Professor to Associate Professor	Chemistry
Joseph Myers	Professor to Emeritus Professor	Journalism
M. F. Osborn	1st Associate Director to Associate Professor of Medicine	Un. Health Service
Dwight M. Palmer	Instructor to Assistant Professor	Anatomy
Ralph Powell	Assistant Professor to Associate Professor	Mechanics
Donald C. Power	Assistant Professor to Associate Professor	Business Organization

Richard H. Rowntree....	Instructor to Assistant Professor.....	Economics
Rudolph P. Schneider....	Instructor to Assistant Professor.....	Industrial Engineering
Charles J. Shepard.....	Associate Professor to Professor.....	Medicine
Daniel M. Shonting....	Instructor to Assistant Professor.....	Accounting
Guy-Harold Smith	Assistant Professor to Associate Professor....	Geography
Royall H. Snow.....	Assistant Professor to Associate Professor....	English
L. Gordon Staley.....	Instructor to Assistant Professor.....	Physical Education
Karl W. Stinson.....	Associate Professor to Professor.....	Mechanical Engineering
Emily L. Stogdill.....	Instructor to Assistant Professor.....	Psychology
James B. Tharp.....	Assistant Professor to Associate Professor....	Education
George R. Twiss.....	Professor to Emeritus Professor.....	Education
Franklin C. Wagenhals....	Assistant Professor to Associate Professor....	Medicine
Charles H. Wall.....	Assistant Professor to Associate Professor....	Civil Engineering
John W. Wilce.....	Associate Physician to Professor of Medicine..	Un. Health Service
Charles L. Williams....	Instructor to Assistant Professor.....	Pharmacy
John Harold Wilson....	Assistant Professor to Associate Professor....	English
M. Emmett Wilson.....	Associate Professor to Professor.....	Music
Bruce K. Wiseman.....	Assistant Director to Associate Professor....	Med. and Surg. Research
Harold Wood	Assistant Professor to Associate Professor....	Physical Education

APPENDIX III

THE WORK OF INSTRUCTORS—1934-1935

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
ACCOUNTING												
Elements of Accounting	401	5	34	401	5	212	401	5	208	401	5	83
Elements of Accounting	402	5	16	402	5	63	402	5	154	402	5	124
Intermediate Accounting	403	5	9	403	5	76	403	5	44	403	5	96
Outline of Accounting	405	5	55	405	5	35	...	...	...
Advanced Principles of Accounting.....	602	5	19	602	5	28	602	5	15
Cost Accounting	603	4	13	603	4	12	603	4	42	...	...	...
Cost Accounting	604	5	13	604	5	34
Auditing	607	2	41	607	2	6	...	...	...
Auditing	608	2	32	608	2	16
Cost Accounting Systems	610	3	*	...	...	...
Income Tax Accounting	611	2	15	...	...	...	611	2	47
Constructive Accounting	612	4	8	...	...	...	612	4	38
Accounting Practice	613	4	39	613	4	9	...	...	...
Accounting Practice	614	4	30	614	4	16
Business Statements	616	3	19	616	3	28	616	3	52
Managerial Accounting	617	5	7
Fiduciary Accounting	621	2	*	...	...	...
Advanced Accounting Theory	622	3	0
Factory costs	624	5	42
Graduate Seminary in Accounting.....	804	2	3	804	2	2	...	...	...	...	...	...
Research in Accounting	950	...	0	950	...	0	950	...	1
AGRICULTURAL CHEMISTRY												
General Agricultural Chemistry.....	401	5	109	401	5	35	401	5	66
An Introduction to Organic and Biological Chemistry	402	5	40	402	5	33	403	5	42
An Introduction to Organic and Biological Chemistry	403	5	24	403	5	26	403	5	36
Animal Chemistry	406	3	61	406	3	7
General Biological Chemistry.....	601	5	15	601	5	30	...	...	...
Food Inspection and Analysis.....	602	5	0
Dairy Chemistry	604	5	20	...	...	...	...	...	...
Dairy Chemistry	605	5	19	...	...	...
Dairy Chemistry	606	5	19
Chemistry of Nutrition	607	5	*
Animal Nutrition	608	5	8

THE WORK OF INSTRUCTORS—1934-1935 (Cont'd.)

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Special Problems .....	...	...	...	701	3-15	2	701	3-15	1	701	3-15	2
Plant Chemistry .....	...	...	...	...	...	...	...	...	...	801	5	5
Seminary .....	...	...	...	804	1	5	804	1	5	804	1	0
Research in Agricultural Chemistry.....	...	...	...	950	...	6	950	...	4	950	...	5
AGRICULTURAL EDUCATION												
Principles Applied to the Teaching of Vocational Agriculture in Secondary Schools...	...	...	...	...	...	...	400	5	8	400	5	6
Teaching of Vocational Agriculture in Secondary Schools .....	...	...	...	401	5	9	...	...	...	401	5	9
Observation of the Teaching of Vocational Agriculture .....	...	...	...	502	5	4	502	5	8	502	5	13
Supervised Teaching of Vocational Agriculture .....	...	...	...	503	5	4	503	5	8	503	5	13
Special Methods of Teaching Vocational Agriculture in Secondary Schools.....	601	5	0	601	5	4	601	5	8	601	5	5
Special Problems	701	3-15	8	701	3-15	0	701	3-15	2	701	3-15	0
Supervised Practice Program Building.....	705	3	5	...	...	...	...	...	...	...	...	...
The Problem Method Applied to Secondary and College Teaching in Agriculture.....	803	5	8	...	...	...	803	5	0	...	...	...
State Administration and Supervision of Vocational Agriculture .....	...	...	...	...	...	...	...	...	...	804	3	0
Organization and Administration of Teacher Training for Vocational Agriculture.....	806	3	0	...	...	...	806	3	*	...	...	...
Tests and Measurements Adapted to Instruction in Vocational Agriculture.....	807	3	5	...	...	...	...	...	...	...	...	...
Organization and Methods of Conducting Part-time and Evening Schools in Vocational Agriculture	803	3	0	...	...	...	...	...	...	...	...	...
Research for Teachers of Vocational Agriculture	809	3	5	...	...	...	...	...	...	...	...	...
Seminar in Agricultural Education.....	810	1-3	0	810	1-3	0	810	1-3	0	810	1-3	0
AGRICULTURAL ENGINEERING												
Field Machinery .....	...	...	...	401	5	69	401	5	71	...	...	...
Agricultural Drawing .....	...	...	...	402	3	15	402	3	31	402	3	24
Dairy Engineering .....	...	...	...	408	3	*	408	3	35	...	...	...
Farm Buildings .....	...	...	...	...	...	...	502	3	20	...	...	...
Farm Motors .....	...	...	...	...	...	...	503	5	27	...	...	...
Farm Shop .....	...	...	...	...	...	...	...	...	...	504	5	10
Drainage and Irrigation.....	...	...	...	...	...	...	...	...	...	507	5	19

Advanced Farm Structures.....	...	...	...	602	5	0	...	...	...	...	...	...
Advanced Farm Power Equipment.....	...	...	...	603	5	5	...	...	...	...	...	...
Advanced Drainage and Irrigation.....	...	...	...	604	5	0	...	...	...	...	...	...
Advanced Field Machinery.....	...	...	...	...	...	...	...	...	...	605	5	10
Special Problems.....	...	...	...	701	3-15	6	701	3-15	0	701	3-15	8
Research in Agricultural Engineering.....	...	...	...	950	...	0	950	...	0	950	...	0
AGRONOMY												
Field Crop Production.....	...	...	...	...	...	...	401	5	8	...	...	...
Soils.....	...	...	...	501	5	29	501	5	37	501	5	36
Cereal Crops.....	...	...	...	...	...	...	502	5	19	502	5	18
Forage Crops.....	...	...	...	503	5	22	...	...	...	503	5	13
Soils for Agricultural Teachers.....	...	...	...	505	3	*	...	...	...	...	...	...
Soil Fertility.....	...	...	...	601	3	8	...	...	...	...	...	...
Chemical Methods used in Soil Investigation.....	...	...	...	602	5	2	...	...	...	...	...	...
Origin and Classification of Soils.....	...	...	...	...	...	...	...	...	...	603	3	18
Soil Physics.....	...	...	...	...	...	...	608	5	8	...	...	...
Physical Chemistry of Soils.....	...	...	...	...	...	...	...	...	...	609	5	7
Special Problems.....	701	3-15	1	701	3-15	1	701	3-15	0	701	3-15	1
Agronomy Seminary.....	...	...	...	702	1-5	8	702	1-5	8	702	1-5	13
Research in Agronomy.....	950	...	1	950	...	1	950	...	1	950	...	2
ANATOMY												
Comparative Anatomy.....	...	...	...	...	...	...	...	...	...	407	5	60
Visceral Anatomy.....	...	...	...	410	3	18	...	...	...	...	...	...
Elementary Human Anatomy.....	...	...	...	...	...	...	...	...	...	412	5	51
Comparative Anatomy of the Vertebrates.....	...	...	...	...	...	...	414	5	86	...	...	...
The Eye.....	...	...	...	...	...	...	...	...	...	437	5	38
Seminary.....	...	...	...	601	1	0	...	...	...	...	...	...
Seminary.....	...	...	...	...	...	...	602	1	3	...	...	...
Seminary.....	...	...	...	...	...	...	...	...	...	603	1	1
Comparative Histology.....	...	...	...	...	...	...	611	5	0	...	...	...
Cytology.....	...	...	...	...	...	...	612	5	16	...	...	...
Comparative Anatomy of the Vertebrates.....	613	5	15	613	5	105	613	5	59	...	...	...
Comparative Anatomy of the Vertebrates.....	...	...	...	...	...	...	614	5	0	615	5	0
Comparative Vertebrate Embryology.....	616	5	9	...	...	...	616	5	93	...	...	...
Elementary Neurology.....	...	...	...	617	5	10	...	...	...	...	...	...
Elementary Neurology.....	...	...	...	...	...	...	618	5	3	...	...	...
Comparative Anatomy of the Vertebrates.....	...	...	...	...	...	...	...	...	...	619	5	114
Human Anatomy.....	...	...	...	621	5	100	...	...	...	...	...	...
Human Anatomy.....	...	...	...	...	...	...	622	5	94	...	...	...
Human Anatomy.....	...	...	...	...	...	...	...	...	...	623	5	89
Microscopic Anatomy.....	...	...	...	624	5	100	...	...	...	...	...	...
Developmental Anatomy.....	...	...	...	...	...	...	625	5	94	...	...	...
Neuro-Anatomy.....	...	...	...	...	...	...	...	...	...	626	5	87
Topographical Anatomy (Dentistry and Applied Optics).....	...	...	...	627	2	85	...	...	...	...	...	...
Special Advanced Anatomy (Medicine).....	...	...	...	628	3	3	628	2	6	628	2	4
Human Anatomy.....	...	...	...	638	7	44	...	...	...	...	...	...
Human Anatomy.....	...	...	...	...	...	...	639	7	45	...	...	...
Histology and Embryology.....	640	5	47
Sectional Anatomy.....	641	1	48
Minor Problems.....	700	5	3

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Minor Problems	701	5	8	...	...	...	701	5	6
Minor Problems	702	5	7	...	...	...
Advanced Anatomy	801	5	0	...	...	...	...	...	...
Advanced Anatomy	802	5	0	...	...	...
Advanced Anatomy	803	...	0
Research in Anatomy	950	...	0	950	...	0	950	...	1	950	...	3
ANIMAL HUSBANDRY												
Market Types and Classes of Livestock.....	401	5	155	401	5	37	401	5	17
Feeding Live Stock.....	402	5	71	402	5	50	402	5	49
Dairy Cattle and Milk Secretion.....	404	3	23	...	...	...	...	...	...
Dairy Cattle Breeds.....	405	5	...
Selection and Cutting of Meat.....	407	3	40	...	...	...
Breeding Live Stock.....	409	5	23	409	5	77
Meats and Meat Products.....	410	3	7	...	...	...
Horse Production and Management.....	501	5	21	...	...	...
Beef Cattle Production and Management.....	502	5	17	...	...	...	...	...	...
Swine Production and Management.....	503	5	22
Dairy Cattle Production and Management.....	504	5	11	...	...	...
Sheep Production and Management.....	505	5	16
Advanced Live Stock Judging.....	506	5	9	...	...	...	...	...	...
Dairy Cattle Selection and Judging.....	507	3	12
Dairy Production for Teachers of Vocational Agriculture	508	5	7
Advanced Meats	607	3	6
Live Stock Marketing.....	608	5	13	...	...	...
Progeny Testing and Newer Trends in Live-stock Breeding	611	3	12	...	...	...
Milk Production	612	3	5	...	...	...	...	...	...
Trends in Dairy Cattle Investigation.....	614	5	0	...	...	...	...	...	...
Dairy Inspection Trip	616	...	0
Marketing of Dairy Products.....	626	3	0	...	...	...
Special Problems	701	3-15	4	701	3-15	7	701	3-15	6
Research in Animal Husbandry.....	950	...	0	950	...	0	950	...	0
APPLIED OPTICS												
Vision Optics	411	4	44	...	...	...	...	...	...
Vision Optics	412	4	34
Vision Optics	413	4	32
Theoretical Applied Optics.....	421	3	19

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Theoretical Applied Optics.....	422	3	18
Theoretical Applied Optics.....	423	3	17
Mechanical Optics.....	431	2	19
Mechanical Optics.....	...	...	...	...	...	432	2	19	...	...	...
Mechanical Optics.....	...	...	...	...	...	...	...	...	433	2	18
Clinical Laboratory Practice.....	...	...	441	5	19	...	...	...	...	...	...
Clinical Laboratory Practice.....	...	...	...	...	...	442	5	17	...	...	...
Clinical Laboratory Practice.....	...	...	...	...	...	...	...	...	443	5	17
ARCHITECTURE											
Shades and Shadows.....	...	...	...	...	...	401	3	16	...	...	...
Perspective.....	...	...	...	...	...	...	...	...	402	3	15
Theory of Architecture.....	...	...	403	3	15	...	...	...	...	...	...
Elements of Architecture.....	...	...	421	5	20	...	...	...	...	...	...
Elementary Architectural Design.....	...	...	...	...	...	422	5	16	422	5	0
Elementary Architectural Design.....	...	...	423	5	8	423	5	0	423	5	17
History of Architecture.....	...	...	544	3	18	...	...	...	...	...	...
History of Architecture.....	...	...	...	...	...	545	3	16	...	...	...
History of Architecture.....	...	...	...	...	...	...	...	...	546	3	15
Theory of Architecture.....	...	...	...	...	...	...	...	...	604	3	11
Theory of Architecture.....	...	...	...	...	...	...	...	...	605	2	2
Elementary Architectural Design.....	...	...	624	5	8	624	5	7	624	5	1
Intermediate Architectural Design.....	...	...	625	5	5	625	5	7	625	5	4
Intermediate Architectural Design.....	...	...	627	5	1	627	5	3	627	5	6
Contract Drawings.....	...	...	638	3	6	...	...	...	...	...	...
Construction: Timber Framing.....	...	...	...	...	...	640	5	14	...	...	...
Construction: Masonry.....	...	...	...	...	...	...	...	...	641	5	10
Materials of Construction.....	...	...	642	5	6	...	...	...	...	...	...
History of Architecture.....	...	...	647	3	13	...	...	...	...	...	...
History of Architecture.....	...	...	...	...	...	648	3	21	...	...	...
History of the Decorative Arts.....	...	...	...	...	...	649	3	4	...	...	...
Architecture: Special Studies in Architecture.....	...	...	660	1-5	5	...	...	...	...	...	...
Architecture: Special Studies in Architecture.....	...	...	...	...	...	661	1-5	10	...	...	...
Architecture: Special Studies in Architecture.....	...	...	...	...	...	...	...	...	662	1-5	9
Intermediate Architectural Design.....	...	...	724	5	5	724	5	0	724	5	3
Intermediate Architectural Design.....	...	...	725	5	0	725	5	8	725	5	0
Advanced Architectural Design.....	...	...	726	5	1	726	5	1	726	5	5
Advanced Architectural Design.....	...	...	727	8	5	727	8	2	727	8	1
Advanced Architectural Design.....	...	...	728	8	1	728	8	5	728	8	1
Advanced Architectural Design.....	...	...	730	8	0	730	8	0	730	8	4
Ornament.....	...	...	...	...	...	...	...	...	731	3	13
Building Sanitation.....	...	...	...	...	...	737	2	16	...	...	...
Construction: Design.....	...	...	...	...	...	742	5	1	...	...	...
Construction: Design.....	...	...	...	...	...	...	...	...	743	5	1
Construction: Design.....	...	...	744	5	1	...	...	...	...	...	...
Construction: Design.....	...	...	...	...	...	745	5	1	...	...	...
Construction: Design.....	...	...	...	...	...	...	...	...	746	5	1
Fire Protection.....	...	...	748	2	2	...	...	...	...	...	...
Thesis.....	...	...	749	8	1	749	8	0	749	8	0
Estimating.....	...	...	751	2	4	...	...	...	...	...	...
Specifications and Contracts.....	752	2	4
Professional Practice.....	753	2	4
Thesis.....	761	1	0	761	1	0	761	1	0..

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Thesis	762	1	0	762	1	0	762	1	0
Thesis	763	5	0	763	5	0	763	5	0
BACTERIOLOGY												
Bacteriology	405	3	0	...	...	...
Bacteriology	450	5	36
Bacteriology for Veterinary Students.....	502	4	12	...	...	...	...	...	...
Bacteriology for Veterinary Students.....	503	4	17	...	...	...
Bacteriology for Veterinary Students.....	504	3	22
General Micro-Biology	509	5	35	509	5	30	509	5	31
General Bacteriology	607	5	59	607	5	81	607	5	21	607	5	26
Pathogenic Bacteria	608	3	58	...	...	...	608	3	79	...	...	...
Pathogenic Bacteria	609	3	32	...	...	...	609	3	30	...	...	...
Dairy Bacteriology	610	3	16	...	...	...
Dairy Bacteriology	611	3	13	...	...	...
Water Examination, Sewage Disposal Water Filtration	614	3	15	...	...	...
Bacteriological Chemistry	613	3	*
Immunity and Serum Therapy.....	617	3	23	...	...	...	617	3	22
Immunity and Serum Therapy.....	618	3	8	...	...	...	618	3	17
Pathogenic Protozoa	619	3	31
Advanced Dairy Bacteriology.....	621	5	0	...	...	...	621	5	8
Special Technique in Pathogenic Bacteriology.....	625	5	22	...	...	...	...	...	...
Special Technique in Pathogenic Bacteriology.....	626	5	17	...	...	...
Special Technique in Pathogenic Bacteriology.....	627	5	16
Medical Bacteriology.....	641	5	73	...	...	...	...	...	...
Medical Bacteriology.....	642	2	73	...	...	...
Applied Veterinary Bacteriology.....	643	2	50	...	...	...	...	...	...
Applied Veterinary Bacteriology.....	644	2	52	...	...	...
Applied Veterinary Bacteriology.....	645	2	55
Dental Bacteriology	650	5	49	...	...	...
Dental Bacteriology	651	5	49
Minor Investigations	701	3-5	6	701	3-5	5	701	3-5	8	701	3-5	5
Seminary in Bacteriology.....	807	1	0	808	1	0	809	1	0
Research in Bacteriology.....	950	...	26	950	...	19	950	...	17	950	...	20
BOTANY												
General Botany	401	5	78	401	5	643	401	5	258	401	5	197
General Botany	402	5	63	402	5	99	402	5	518	402	5	223
Local Flora	405	5	*

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Local Flora	406	5	94
General Plant Pathology	455	3	...	419	5	16	419	5	38
Local Flora: Algae, Liverworts and Mosses	456	3	9
Local Flora: Trees, Shrubs, and Herbs .....	...	...	...	601	5	13	...	...	...	...	...
Plant Ecology .....	...	...	...	...	...	...	...	...	602	5	10
Plant Ecology	605	5	17	605	5	45	605	5	23	...	...
Plant Physiology	606	5	19	...	...	...	606	5	35	606	5
Plant Physiology .....	...	...	...	...	...	...	...	...	611	5	16
Evolution of Plants .....	...	...	...	...	...	...	...	...	...	...	*
General Morphology of Thallophtyes and Bryophytes .....	...	...	...	613	5	6	...	...	...	...	...
General Morphology of the Pteridophytes and Spermatophytes	614	5	11	...	...	...	614	5	6	...	...
Plant Microtechnic .....	...	...	...	...	...	...	615	5	17	...	...
Plant Microchemistry .....	...	...	...	617	5	4	...	...	...	...	...
Economic Botany .....	...	...	...	619	5	0	...	...	...	...	...
Physiological Methods .....	...	...	...	...	...	...	...	...	632	3	*
Physiological Methods .....	...	...	...	...	...	...	633	3	10	...	...
Plant Growth .....	...	...	...	...	...	...	...	...	634	3	10
Plant Genetics .....	...	...	...	...	...	...	...	...	635	5	5
Plant Cytology .....	...	...	...	...	...	...	...	...	637	5	*
Plant Anatomy .....	...	...	...	...	...	...	...	...	640	5	8
Mycology .....	...	...	...	653	5	3	...	...	...	...	...
Advanced Plant Pathology .....	...	...	...	...	...	...	656	3	13	...	...
Freshwater Algae .....	...	...	...	...	...	...	665	5	0	...	...
Special Problems	701	2-5	19	701	2-5	6	701	2-5	4	701	2-5
Principles of Taxonomy: Pteridophytes and Gymnosperms .....	...	...	...	807	5	3	...	...	...	...	...
Principles of Taxonomy: Monocotyls .....	...	...	...	...	...	...	808	5	6	...	...
Principles of Taxonomy: Dicotyls .....	...	...	...	...	...	...	...	...	809	5	5
Botanical Colloquium .....	...	...	...	810	1	10	810	1	8	810	1
Seminary in the History of Botany .....	...	...	...	...	...	...	812	1	0	...	4
Research in Botany	950	...	8	950	...	7	950	...	6	950	...
...	...	...	...	...	...	...	...	...	...	...	6
BUSINESS ORGANIZATION											
Introduction to Business .....	...	...	...	401	5	260	401	5	172	401	5
Business Communications and Adjustment Practice .....	...	...	...	504	3	63	504	3	88	504	3
Business Statistics .....	...	...	...	...	...	...	614	3	31	...	122
Public Aspects of Industry .....	...	...	...	...	...	...	620	1	210	...	...
Business Law: Contracts	621	3	20	621	3	104	621	3	108	621	3
Business Law for Engineers and Architects .....	...	...	...	622	3	70	622	3	38	622	3
Business Law: Agency and Sales .....	...	...	...	623	3	42	623	3	60	623	3
Business Law: Negotiable Instruments .....	...	...	...	625	3	30	625	3	54	625	3
Business Law: Partnerships and Corporations .....	...	...	...	627	3	24	627	3	20	...	69
Business Law: Law of Banks and Banking .....	...	...	...	...	...	...	631	3	*	...	...
Corporate Organization and Control .....	...	...	...	640	3	24	640	3	28	640	3
Real Estate Principles and Finance .....	...	...	...	642	3	10	...	...	...	642	3
Real Estate Principles and Finance .....	...	...	...	...	...	...	643	3	7	...	23
Real Estate Problems .....	...	...	...	643	1-3	1	644	1-3	0	644	1-3
Trade Associations .....	...	...	...	...	...	...	645	3	0	...	3
Corporation Finance	650	5	26	650	5	61	650	5	59	650	5
Industrial Finance	652	3	6	652	3
...	81
...	26

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Industrial Corporations and Mergers.....	...	...	...	653	3	*	...	...	...	...	...	...
Railroad and Public Utility Finance.....	...	...	...	656	3	14	656	3	19	...	...	...
Investment Analysis.....	...	...	...	...	...	...	657	3	10	...	...	...
Principles of Investment.....	658	3	14	658	3	8	...	...	...	658	3	37
Investment Banking.....	...	...	...	...	...	...	...	...	...	659	3	5
The Stock Market.....	650	3	11	660	3	15	660	3	17	660	3	27
The Money Market.....	662	3	8	...	...	...	...	...	...	662	3	19
Foreign Exchange.....	...	...	...	...	...	...	665	3	16	...	...	...
Practice Work in Banking.....	...	...	...	666	1-3	0	666	1-3	0	666	1-3	0
Bank Organization and Management.....	...	...	...	...	...	...	670	1-3	9	...	...	...
Savings and Trust Institutions.....	...	...	...	674	3	*	...	...	...	...	...	...
Industrial Organization and Management.....	680	5	31	680	5	76	680	5	62	680	5	67
Industrial Management Field Work.....	684	3-6	20	684	3-6	0	684	3-6	0	684	3-6	0
Purchasing, Stores and Inventory.....	...	...	...	...	...	...	685	3	22	...	...	...
Personnel Organization and Management.....	...	...	...	686	3	19	...	...	...	...	...	...
Production Organization and Management.....	...	...	...	...	...	...	...	...	...	...	...	...
Marketing.....	700	5	24	700	5	107	700	5	81	700	5	90
Marketing Problems and Market Analysis.....	...	...	...	702	4	35	702	4	33	702	4	42
Retail Merchandising.....	705	4	18	705	4	36	705	4	39	705	4	34
Wholesaling.....	...	...	...	...	...	...	...	...	...	706	4	32
Credits and Collections.....	...	...	...	709	4	19	709	4	39	709	4	46
Salesmanship and Sales Management.....	...	...	...	712	4	36	712	4	55	712	4	33
Principles of Advertising.....	716	3	14	716	3	51	716	3	37	716	3	61
Advertising Practice.....	...	...	...	...	...	...	717	3	27	...	...	...
Retail Advertising.....	...	...	...	...	...	...	...	...	...	719	4	32
Exporting and Importing.....	...	...	...	720	3	11	...	...	...	...	...	...
Exporting and Importing.....	...	...	...	...	...	...	721	3	11	...	...	...
Field Work in Marketing.....	725	3-6	1	725	3-6	1	725	3-6	0	725	3-6	0
Public Utility Organization and Administration.....	...	...	...	...	...	...	...	...	...	740	3	8
Valuation of Railroads and Public Utilities.....	...	...	...	...	...	...	748	3	*	...	...	...
Traffic Management—Service Problems.....	...	...	...	...	...	...	752	3	0	...	...	...
Personal Insurance.....	...	...	...	...	...	...	760	3	26	...	...	...
Property Insurance.....	...	...	...	...	...	...	...	...	...	764	3	18
Special Problems in Business Organization.....	799	1-3	8	799	1-3	8	799	1-3	13	799	1-3	11
Corporation Finance for Graduate Students.....	804	3	2	...	...	...	804	3	0	804	3	0
Marketing for Graduate Students.....	816	3	6	816	3	4	816	3	3	...	...	...
Problems of Banking and Stock Prices.....	...	...	...	...	...	...	...	...	...	820	1-3	0
Stock Market for Graduate Students.....	...	...	...	827	3	0	...	...	...	...	...	...
Graduate Seminary in Business Organization.....	...	...	...	831	2	4	831	2	4	831	2	0
Graduate Seminary in Business Organization.....	...	...	...	832	2	0	832	2	0	832	2	0

Graduate Course in Industrial Management..	...	...	...	833	3	0	833	3	3	...	...	...
Application of Economic Theory in Industrial Organization and Management.....	...	...	...	...	...	...	...	...	...	834	3	0
Seminary in Transportation and Public Utilities .....	...	...	...	845	3	4	845	3	0	...	...	...
Research in Business Organization.....	950	...	10	940	...	4	950	...	5	950	...	3
CERAMIC ENGINEERING												
Occurrence and Properties of Clays.....	...	...	...	...	...	...	401	4	9	...	...	...
Winning, Preparation and Forming .....	...	...	...	...	...	...	...	...	...	405	4	4
Ceramic Laboratory .....	...	...	...	450	1	7	...	...	...	...	...	...
Theory of Drying .....	...	...	...	600	3	8	...	...	...	...	...	...
Driers, Kilns and Theory of Firing.....	...	...	...	...	...	...	601	5	7	...	...	...
Elements of Ceramic Plant Engineering.....	...	...	...	...	...	...	603	5	5	...	...	9
Bodies, Glazes and Color.....	...	...	...	...	...	...	...	...	...	605	4	9
Refractories and their Uses.....	...	...	...	...	...	...	...	...	...	610	5	17
Ceramic Calculations .....	...	...	...	615	5	9	...	...	...	...	...	...
Physical and Chemical Measurements of Clays and other Ceramic Material.....	...	...	...	...	...	...	620	5	8	...	...	...
Junior Inspection Trip .....	...	...	...	...	...	...	...	...	...	630	...	7
Ceramic Investigations .....	...	...	...	701	5	10	...	...	...	...	...	...
Ceramic Investigations .....	...	...	...	...	...	...	702	5	7	...	...	...
Ceramic Investigations .....	...	...	...	...	...	...	...	...	...	703	5	9
Ceramic Designing .....	...	...	...	705	5	7	...	...	...	...	...	...
Ceramic Designing .....	...	...	...	...	...	...	706	5	7	...	...	...
Ceramic Designing .....	...	...	...	...	...	...	...	...	...	707	5	7
Technology of Glass .....	...	...	...	708	3	9	...	...	...	...	...	...
Thesis .....	...	...	...	710	3	0	710	3	7	710	3	0
Thesis .....	...	...	...	711	3	1	711	3	0	711	3	7
Senior Inspection Trip.....	...	...	...	...	...	...	...	...	...	730	...	7
Special Problems .....	...	...	...	750	2-7	2	750	2-7	1	750	2-7	1
Porcelain for Electrical and Other Special Purposes .....	...	...	...	810	2	0	...	...	...	...	...	...
Porcelain for Electrical and Other Special Purposes .....	...	...	...	...	...	...	811	2	7	...	...	...
Porcelain for Electrical and Other Special Purposes .....	...	...	...	...	...	...	...	...	...	812	2	6
Seminary in Ceramic Engineering.....	...	...	...	815	1-5	0	815	1-5	0	815	1-5	0
Research in Ceramic Engineering.....	...	...	...	950	...	6	950	...	6	950	...	2
CHEMICAL ENGINEERING												
Chemical Engineering Practice Work.....	...	...	...	501	5	40	...	...	...	501	5	61
Contemporary Leadership and Policies in Chemical Industry	591	3	8	...	...	...	...	...	...	...	...	...
Contemporary Chemical Industry and Civilization	592	3	4	...	...	...	...	...	...	...	...	...
Elements of Chemical Engineering.....	...	...	...	691	2	46	...	...	...	...	...	...
Elements of Chemical Engineering.....	...	...	...	...	...	...	692	2	44	...	...	...
Industrial Chemistry	701	3	10	701	3	43	...	...	...	...	...	...
Industrial Chemistry	702	3	46
Inspection Trip to the East.....	703	...	72
Inspection Trip to the West.....	704	...	*

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Chemical Engineering and Industrial Chemistry Laboratory	706	5	10	706	2-5	39	...	...	...	...	...	...
Engineering Chemistry and Chemical Engineering Laboratory .....	...	...	...	...	...	...	707	3	44	...	...	...
Applied Electrochemistry .....	...	...	...	...	...	...	...	...	...	710	3	9
Advanced Chemical Engineering Machinery Laboratory .....	...	...	...	712	2-6	15	713	2-6	23	714	2-6	20
Chemical Engineering Thesis .....	...	...	...	720	2	0	720	2	35	720	2	0
Chemical Engineering Thesis .....	...	...	...	721	5-6	0	721	720	...	721	5-6	35
Chemical Engineering Round-table .....	...	...	...	731	1	45	...	...	...	...	...	...
Introductory Problems in Chemical Engineering	801	2-5	1	801	2-5	0	801	2-5	0	801	2-5	2
Advanced Industrial Chemistry and Chemical Engineering	900	2-5	5	900	2-5	0	901	2-5	0	902	2-5	0
Seminary in Industrial Chemistry and Chemical Engineering	905	2	4	905	2	18	906	2	17	907	2	17
Industrial Chemistry and Chemical Engineering Research	950	...	13	950	...	16	950	...	16	950	...	14
CHEMISTRY												
Elementary Chemistry	401	5	19	401	5	489	401	5	71	...	...	...
Elementary Chemistry	402	5	17	...	...	...	402	5	393	402	5	52
Qualitative Analysis	403	5	5	...	...	...	...	...	...	403	5	189
General Chemistry	411	5	13	411	5	986	411	5	123	...	...	...
General Chemistry	412	5	13	412	5	42	412	5	813	412	5	130
Qualitative Analysis	413	5	16	...	...	...	413	5	41	413	5	556
Quantitative Analysis .....	...	...	...	421	3-4	227	...	...	...	...	...	...
Quantitative Analysis .....	...	...	...	...	...	...	422	3-4	186	...	...	...
Quantitative Analysis .....	...	...	...	...	...	...	...	...	...	423	3-4	169
Problems in Quantitative Analysis .....	...	...	...	...	...	...	...	...	...	424	1	74
Organic Chemistry	451	5	29	451	5	94	...	...	...	...	...	...
Organic Chemistry	452	5	24	...	...	...	452	5	90	...	...	...
Quantitative Analysis .....	...	...	...	...	...	...	...	...	...	465	5	21
Elementary Quantitative Analysis .....	...	...	...	...	...	...	...	...	...	561	5	58
Physical Chemistry .....	...	...	...	...	...	...	...	...	...	563	5	20
Advanced Quantitative Analysis .....	...	...	...	621	4-5	9	...	...	...	...	...	...
General Quantitative Analysis	622	3	20
Water Analysis	625	5	12
Industrial Water Problems	627	3	8

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Qualitative Organic Analysis.....	641	3	9	641	3	45
Quantitative Organic Analysis.....	642	3	11	642	3	11
Organic Chemistry.....	647	3	41	647	3	123	...	...	...	...	...
Organic Chemistry.....	648	3	36	...	...	648	3	103	...	...	...
Organic Chemistry-Laboratory.....	649	3	38	649	3	111	...	...	...	...	...
Organic Chemistry-Laboratory.....	650	3	27	...	...	650	3	63	...	...	...
X-ray and Crystal Structure.....	...	...	...	...	...	654	3	*	...	...	...
Advanced Inorganic Chemistry.....	661	3	23	661	3	52	...	...	...	...	...
Advanced Inorganic Chemistry.....	...	...	...	...	...	662	3	45	...	...	...
The Rare Elements.....	...	...	...	...	...	...	...	...	663	3	46
Non-aqueous Solvents.....	...	...	...	...	...	...	...	...	668	3	*
Inorganic Preparations.....	...	...	...	...	...	...	...	...	672	3	9
The Phase Rule.....	...	...	...	...	...	...	...	...	675	2	*
Physical Chemistry.....	...	...	...	680	3	6	...	...	...	...	...
Physical Chemistry.....	...	...	...	681	3	89	...	...	...	...	...
Physical Chemistry.....	...	...	...	...	...	682	3	76	...	...	...
Physical Chemistry.....	683	3	20	...	...	...	...	...	683	3	71
Physical Chemistry-Laboratory.....	691	2	11	691	2	41	...	...	...	...	...
Physical Chemistry-Laboratory.....	692	2	See	...	...	692	2	34	...	...	...
Physical Chemistry-Laboratory.....	693	2	691	...	...	...	...	...	693	2	20
Colloid Chemistry.....	...	...	See	...	...	695	3	28	...	...	...
Theoretical Electrochemistry.....	...	...	691	...	...	...	...	...	...	...	...
Minor Problems in Chemistry.....	699	3-15	5	696	3	19	...	...	...	...	...
Minor Problems in Chemistry.....	...	...	...	701	3-15	5	701	3-15	10	701	3-15
Chemical Bibliography.....	...	...	...	782	1	29	...	...	...	...	12
Chemical Biography.....	...	...	...	...	...	783	1	27	...	...	...
Seminary in Analytical Chemistry.....	...	...	...	822	3	5	...	...	...	...	...
Seminary in Analytical Chemistry.....	...	...	...	...	...	823	2	0	...	...	...
Historical Chemistry.....	...	...	...	...	...	830	3	10	...	...	...
Advanced Organic Chemistry.....	841	3	13	841	3	25	...	...	...	...	...
Advanced Organic Chemistry.....	...	...	...	...	...	842	3	28	...	...	...
Advanced Organic Chemistry.....	...	...	...	...	...	...	...	...	843	3	35
Advanced Organic Preparations-Laboratory.....	844	3-5	7	844	3-5	12	...	...	...	...	...
Advanced Organic Preparations-Laboratory.....	845	3-5	2	...	...	845	3-5	9	...	...	...
Seminary in Organic Chemistry.....	...	...	...	850	3	18	...	...	...	...	...
Seminary in Organic Chemistry.....	...	...	...	...	...	851	3	5	...	...	...
Seminary in Organic Chemistry.....	...	...	...	...	...	...	...	...	852	3	12
Seminary in Organic Chemistry.....	854	3	10	...	...	...	...	...	...	...	...
Physical Chemistry-Laboratory.....	861	2-3	1	861	2-3	0	...	...	...	...	...
Physical Chemistry-Laboratory.....	...	...	...	...	...	862	2-3	1	...	...	...
Physical Chemistry-Laboratory.....	...	...	...	...	...	...	...	...	863	2-3	0
Atomic Structure.....	...	...	...	865	3	*	...	...	...	...	...
Seminary in Inorganic Chemistry.....	...	...	...	866	2	0	...	...	...	...	...
Seminary in Inorganic Chemistry.....	...	...	...	...	...	867	2	6	...	...	...
Advanced Lectures in Physical Chemistry.....	...	...	...	881	3	26	...	...	...	...	...
Advanced Lectures in Physical Chemistry.....	...	...	...	...	...	882	3	27	...	...	...
Advanced Lectures in Physical Chemistry.....	...	...	...	...	...	...	...	...	883	3	25
Lectures in Advanced Physical Chemistry.....	887	3	*	888	3	*	889	3
Seminary in Colloid Chemistry and Electro-chemistry.....	891	3	3

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Introductory Course on Quantum Mechanics with Special Application to fundamental problems in Chemistry.....	892	3	5	892	3	3	...	...	...	...	...	...
Chemical Research	950	...	22	950	...	58	950	...	53	950	...	46
CIVIL ENGINEERING												
Land Surveying	401	5	55	401	5	11	...	...	...
Plane Surveying	402	5	44	402	5	0
Railroad Surveying	403	5	0	...	...	...	403	5	39
Topographic Drawing	404	4	12	404	4	39	...	...	...
Applied Descriptive Geometry.....	405	4	34
Summer Surveying Camp.....	407	6	13	...	...	...	...	...	...	411	3	56
Elementary Surveying	411	3	25	...	...	...	...	...	...
Topographic Surveying	601	5	36	...	...	...	...	...	...
Sanitary Engineering	602	5	36	...	...	...	...	...	...
Timber Construction	603	5	50	...	...	...
Stresses in Structures.....	604	5	52
Roads and Pavements.....	605	5	39
Cement and Concrete.....	606	3	19	606	3	39
Summer Surveying Camp	607	6	4	...	...	...	...	...	...	...	...	...
Precise Surveying	608	3	42	...	...	...	...	...	...
Adjustment of Observations	609	3	49	...	...	...
Concrete Design	701	5	29	...	...	...	...	...	...
Bridge Design	702	5	28	...	...	...	...	...	...
Water Supply Engineering	703	5	34	...	...	...
Masonry Construction	704	5	31	...	...	...
Masonry Structures	705	5	30
Thesis	706	1	26	706	1	1	See	708	...
Thesis	707	2	0	707	2	22	707	2	3
Thesis	708	5	0	708	5	0	708	5	13
Thesis	712	5	15	712	5	2	712	5	6
Trusses	713	5	4
Concrete Design
Steel-Frame Buildings	714	5	0	...	...	...
Contracts and Specifications.....	732	3	11
Tall Buildings	733	3	7	...	...	...	...	...	...
Advanced Bridges	737	3-5	8	...	...	...
Highway Plans and Surveys	738	3	6	...	...	...	...	...	...
Bituminous Roads and Surfaces.....	739	3	0	...	...	...
Advanced Civil Engineering	749	3	4	749	3	6	749	3	6
Research in Civil Engineering	950	...	1	950	...	0	950	...	0

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CLASSICAL LANGUAGES

GREEK

Elementary Greek	401	5	12
Elementary Greek	402	5	4
Plato .....	...	...	...	...	...	...	...	...	...	403	5	5
Homer .....	...	...	...	504	5	3	...	...	...	...	...	...
Reading and Lectures .....	...	...	...	...	...	...	601	3-5	2	601	3-5	2
Private Reading and Minor Problems .....	...	...	...	610	2-5	5	610	2-5	4	610	2-5	8
Principles of Historical Study of Language ..	701	3	16	...	...	...	...	...	...	701	3	8
Historical Greek and Latin Grammar .....	...	...	...	720	3	6	...	...	...	...	...	...
Historical Greek and Latin Grammar .....	...	...	...	...	...	...	721	3	*	...	...	...
Historical Greek and Latin Grammar	722	3	7	...	...	...	...	...	...	722	3	4

LATIN

Caesar	300	3	14	...	...	...	...	...	...	...	...	...
Cicero	301	3	10	...	...	...	...	...	...	...	...	...
Elementary Latin .....	...	...	...	401	5	12	...	...	...	...	...	...
Elementary Latin and Caesar .....	...	...	...	...	...	...	402	5	9	...	...	...
Caesar .....	...	...	...	...	...	...	...	...	...	403	5	11
Vergil .....	...	...	...	405	5	17	...	...	...	...	...	...
Cicero, Horace, Ovid .....	...	...	...	406	5	21	...	...	...	...	...	...
Horace, Livy, Gellius .....	...	...	...	...	...	...	401	5	35	...	...	...
Latin Comedy .....	...	...	...	...	...	...	...	...	...	408	5	27
Catullus, Pliny .....	...	...	...	501	3	19	...	...	...	...	...	...
Advanced Readings .....	...	...	...	...	...	...	...	...	...	503	3	16
Advanced Readings .....	...	...	...	...	...	...	504	3	17	...	...	...
Grammatical Review .....	...	...	...	...	...	...	...	...	...	505	2	23
Roman Private Life .....	...	...	...	507	3	20	...	...	...	...	...	...
Roman Art and Archaeology .....	...	...	...	...	...	...	508	3	26	...	...	...
Medical Latin .....	...	...	...	510	3	*	...	...	...	510	3	*
Latin Satire .....	...	...	...	602	3	13	...	...	...	...	...	...
Latin Prose Composition: First Course .....	...	...	...	...	...	...	612	3	14	...	...	...
Latin Prose Composition: Second Course .....	...	...	...	...	...	...	...	...	...	613	3	11
Proseminary I .....	...	...	...	...	...	...	615	3	8	...	...	...
Proseminary II .....	...	...	...	...	...	...	...	...	...	616	3	6
Roman Elegy	620	3	16	620	3	0	...	...	...	...	...	...
Roman Tragedy .....	...	...	...	621	3	*	...	...	...	...	...	...
Plautus .....	...	...	...	...	...	...	622	3	*	...	...	...
Advanced Reading Course in the Post-Augustan Epic .....	...	...	...	...	...	...	...	...	...	623	3	*
Advanced Reading Course in Tacitus .....	...	...	...	...	...	...	...	...	...	624	3	*
Paleography .....	...	...	...	...	...	...	626	3	0	...	...	...
Vulgar Latin .....	...	...	...	...	...	...	627	3	5	...	...	...
Terence	628	3	*	...	...	...	...	...	...	...	...	...
History of Literary Tradition .....	...	...	...	...	...	...	...	...	...	629	3	19
Cicero's Political Philosophy .....	...	...	...	...	...	...	...	...	...	630	3	*
Private Reading and Minor Problems	631	2-5	13	631	2-5	4	631	2-5	1	631	2-5	0
History of Roman Literature .....	...	...	...	650	3	6	...	...	...	...	...	...
History of Roman Literature	651	3	14	...	...	...	651	3	5	...	...	...
History of Roman Literature	652	3	4
Historical Greek and Latin Grammar	720	See Greek	...	721	3	*

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Historical Greek and Latin Grammar.....	722	See	Greek
Seminary in the Latin Epic.....	801	3	6	...	...	...	...	...	...
Seminary in the Latin Epic.....	802	3	5	...	...	...
Seminary in the Post-Augustan Epic.....	803	3	5
Seminary in the Latin Lyric.....	804	3-10	...	...	...	...	...	...	...
Seminary in the Latin Lyric.....	805	3	*	...	...	...
Seminary in the Latin Satire.....	806	3	*	806	3	*	...	...	...
Seminary in Latin Historiography.....	807	3	*	807	3	*	...	...	...
Seminary in the Latin Drama.....	808	3	11	...	...	...	...	...	...	809	3	*
Seminary in the Latin Philosophical Writers.....	810	3	*
Seminary in Classical Archaeology.....
DAIRY TECHNOLOGY												
Principles of Dairy Technology.....	401	5	74	401	5	33	401	5	57
Testing of Milk Products.....	403	5	21	403	5	20
Butter Industry.....	405	5	7	405	5	6	405	5	11
Soft Cheese Manufacturing.....	407	3	8	...	...	...	407	3	6
Dairy Engineering.....	411	3	13
City Milk Inspection.....	412	3	43
Butter Industry Laboratory.....	426	2	1	...	...	...	...	...	...
Management of Dairy Plants.....	605	3	16	...	...	...
Market Milk.....	607	5	15	...	...	...	...	...	...
Hard Cheese Manufacturing.....	608	5	15	...	...	...
Condensed Milk and Milk Powders.....	609	3	15	...	...	...	...	...	...
Ice Cream Manufacturing.....	610	5	15	...	...	...	...	...	...
Dairy Products Judging.....	615	3	18
Special Problems.....	701	3-15	0	701	3-15	1	701	3-15	1
Dairy Seminary.....	702	1	17	702	1	16	702	1	8
Research in Dairy Technology.....	950	...	1	950	...	2	950	...	3
DENTISTRY—OPERATIVE												
Dental Anatomy.....	601	2	40	...	...	...	...	...	...
Dental Anatomy.....	602	3	40	...	...	...
Dental Anatomy and Operative Technic.....	603	2	43
Operative Technic.....	605	3	59	...	...	...	...	...	...
Operative Technic.....	606	3	61	...	...	...
Principles and Practice of Operative
Dentistry.....	609	2	48	610	4	48	611	3	42
Principles and Practice of Operative
Dentistry.....	613	3	56	614	4	56	615	5	55

Dental Hygiene-Immunology	617	3	48	618	3	48	619	1	46
Porcelain Technic	620	3	49	621	1	48	622	2	46
Special Dental Histology	621	1	48	622	1	48	623	2	46
Dental Medicine: Pharmacology	625	2	56	626	2	57	627	2	56
Dental Medicine	628	2	48	629	2	48	630	2	46
Principles and Practice of Exodontia and X-ray	633	2	49	634	2	105	635	2	51
Orthodontia Principles and Technic	637	2	56	638	2	57	639	2	55
Orthodontia Principles and Practice	641	1	56	642	1	56	643	1	55
Anesthetics	645	2	56	646	2	57	647	2	55
Ethics, Economics, History and Jurisprudence	701	1-3	0	702	1-3	0	703	1-3	0
Oral Surgery	950	...	0	950	...	0	950	...	0
Minor Problems in Operative Dentistry									
Research in Operative Dentistry									
DENTISTRY—PROSTHESIS									
Prosthetic Dentistry Technic	601	4	40	602	3	40	603	5	43
Prosthetic Dentistry Technic	605	4	50	606	2	50	607	4	55
Prosthetic Dentistry Principles and Practice	609	2	48	610	3	48	611	4	46
Prosthetic Dentistry Practice	613	2	56	614	2	56	615	2	55
Dental Metallurgy	619	2	53	620	2	51	621	2	45
Crown and Bridge Technic	621	4	51	622	2	48	623	2	55
Crown and Bridge Technic	625	2	48	626	2	56	627	2	55
Crown and Bridge Technic	629	2	56	630	2	56	631	2	55
Minor Problems in Prosthesis	704	1-3	0	705	1-3	0	706	1-3	0
Research in Prosthesis	950	...	0	950	...	0	950	...	0
ECONOMICS									
Survey of the Development of Modern Economic Society	400	5	276	400	5	184	400	5	292
Principles of Economics	401	5	518	401	5	362	401	5	165
Principles of Economics	402	5	152	402	5	444	402	5	295
Principles of Economics for Engineers	403	3	87	403	3	73	403	3	50
Principles of Economics for Engineers	501	5	17	502	5	9	503	5	15
Economic History of the United States	509	5	36	509	5	49	509	5	25
Economic History of the United States	510	3	33	510	3	52	510	3	40
The Evolution of Modern Capitalism	520	5	111	520	5	96	520	5	116
Outlines of Public Finance	522	3	87	522	3	76	522	3	63
Introduction to the Study of Labor Problems	616	5	21	617	5	65	618	5	53
Money and Banking	618	5	32	618	5	65	618	5	53
Economic Statistics	624	3	27	625	2	17	626	2	15
Corporation Economics	625	2	17	626	2	15	627	2	15
Transportation Economics	631	3	61	632	3	19	633	3	51
Principles of Insurance	634	3	0	635	3	0	636	3	0
Business Cycles and Economic Planning									
Business Cycles and Economic Planning									
Public Finance									
Public Finance									
Public Finance									
International Economic Problems									
International Economic Problems									

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Labor Relations	637	3	36	637	3	29	...	...	...
Social Insurance	639	3	23	...	...	...	...	...	...	639	3	50
Women in the Modern Economic World.....	643	4	0	...	...	...
Principles of Economic Consumption	645	3	4	...	...	...
Public Utility Economics.....	648	5	12	...	...	...	...	...	...
International Commercial Policies.....	651	3	18
The Distribution of Wealth and Income.....	656	3	16	656	3	6	...	...	...	...	...	...
Population	658	3	*	...	...	...	...	...	...
Population	659	12	*	...	...	...
Socialism	667	3	23	...	...	...
Capitalism and Socialism in Present-Day Europe	668	3	28
Reading Course	700	3-5	5	700	3-5	0	...	...	...	...	...	...
Reading Course	701	3-5	1	...	...	...
Reading Course for Arts Seniors.....	702	3-5	4
History of Economic Thought.....	801	3	8	801	3	12	...	...	...	...	...	...
History of Economic Thought.....	802	3	19	...	...	...
History of Economic Thought.....	803	3	16
Economic History of the United States.....	804	3	8	...	...	...	...	...	...
Economic History of the United States.....	805	3	10	...	...	...
Economic History of the United States.....	806	3	11
Statistical Analysis	807	2	15	...	...	...	...	...	...
Statistical Analysis	808	2	20	...	...	...
Statistical Analysis	809	2	19
The Economic History of Western Europe.....	812	2	*	...	...	...	...	...	...
The Economic History of Western Europe.....	813	2	*	...	...	...
The Economic History of Western Europe.....	814	2	*
Costs and Returns.....	815	3	*
Modern Economic Theories.....	816	3	2	...	...	...	...	...	...	...	...	...
Modern Economic Theories.....	817	3	*	...	...	...
Modern Economic Theories.....	818	3	*
Current Taxation Problems	825	2	4	...	...	...
Advanced Money	863	3	0	...	...	...	863	3	7
Advanced Banking	864	3	6	...	...	...	864	3	7	...	...	...
Public Control of Industry.....	865	2	9	865	2	1	...	...	...	...	...	...
Public Control of Industry.....	866	2	5	...	...	...
Public Control of Industry.....	867	2	0
Problems of Capital Accumulation and Utilization	868	3	4
European Banking Systems.....	870	2	0	...	...	...	...	...	...

Problems in Modern Economic Theory.....	...	...	...	871	3	3	...	...	...	...	...	...
Problems in Modern Economic Theory.....	...	...	...	...	...	...	872	3	5	...	...	...
Problems in Modern Economic Theory.....	...	...	...	...	...	...	...	...	...	873	3	4
Research in Economics.....	950	...	5	950	...	4	950	...	2	950	...	1
EDUCATION												
The Laboratory of Industries	455	5	13	455	5	21	...	...	...	...	...	...
Wood and Cabinet Work.....	458	5	29	...	...	...	458	5	19	458	5	18
Laboratory of Commercial Education.....	469	5	2	...	...	...	...	...	...	...	...	...
Introduction to the Study of Education.....	501	4	93	501	4	151	501	4	89	501	4	230
The Evolution of the Elementary School.....	507	5	9	...	...	...	507	5	32	507	5	52
Kindergarten and Pre-School Teaching.....	509	3	10	...	...	...	...	...	...	...	...	...
The Teaching of Arithmetic in Elementary Schools	510	3	32	...	...	...	...	...	...	...	...	...
Teaching the English Studies in the Elemen- tary Schools	511	3	36	...	...	...	...	...	...	...	...	...
Teaching the Social Studies in the Interme- diate Grades	512	3	26	...	...	...	...	...	...	...	...	...
Pupil Personnel in Elementary Education.....	513	4	26	...	...	...	513	4	39	...	...	...
Contemporary Elementary Educational Prac- tice	514	4	78	...	...	...	...	...	...	514	4	50
Theory and Practice in Elementary Education Theory and Practice in Elementary Education Theory and Practice in Elementary Education	...	...	...	516	6	45	...	...	...	...	...	...
Supervised Observation of the Teaching of Music in the Elementary Schools.....	...	...	...	...	...	...	517	6	44	...	...	...
Supervised Student Teaching of Music in Elementary Schools .....	...	...	...	519	2	17	...	...	...	519	2	12
Teaching Children's Literature.....	521	3	72	521	3	57	...	...	...	...	...	...
Practical Arts Laboratory for Teachers in Elementary Schools	522	3	25	522	3	40	...	...	...	...	...	...
Practical Arts Laboratory for Teachers in Elementary Schools .....	...	...	...	...	...	...	523	3	52	...	...	...
Teaching Nature and Science in Elementary Schools	528	3	22	...	...	...	...	...	...	...	...	...
The Theory and Practices in Secondary School Teaching	533	4	101	533	4	153	533	5	150	533	4	92
The Theory and Practices in Secondary School Teaching	534	4	63	534	4	54	534	4	130	534	4	121
Supervised Observation of the Teaching of Music in Secondary Schools.....	...	...	...	535	2	35	...	...	...	535	2	5
Supervised Teaching in Secondary Schools...	...	...	...	536	3-7	112	536	3-7	19	536	3-7	197
Special Methods in Industrial Arts and Voca- tional Industrial Education.....	565	3	10	...	...	...	565	3	19	...	...	...
Minor Problems	600	4	153	600	4	69	600	4	43	600	4	77
Foundations of Education.....	603	5	250	603	5	37	...	...	...	...	...	...
The Historical Development of Educational Problems .....	...	...	...	...	...	...	604	5	41	...	...	...
The Organization of Educational Agencies...	...	...	...	...	...	...	...	...	...	605	5	49
Conceptions of Mind in Educational Theory...	610	3	54	...	...	...	...	...	...	...	...	...
The Thinking Process in Its Educational Bearings	611	3	4	...	...	...	611	3	22	...	...	...
Modern Tendencies in Education.....	617	3	63	617	3	14
Moral Ideals in Education.....	620	3	12	620	3	13

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Social Education .....	...	...	...	...	...	...	...	...	...	624	3	15
The History of Modern Education.....	632	5	73	632	5	79	632	5	100	632	5	88
Historical and Comparative Study of Secondary Education	633	2	13	633	2	15	634	2	11	...	...	...
The Evolution of Educational Thought.....	...	...	...	...	...	...	...	...	...	635	5	5
Great Teachers	639	2	29	...	...	...	...	...	...	639	2	13
The History of Vocational Education.....	641	3	5	641	3	0	...	...	...	...	...	...
History of Physical and Health Education...	642	3	13	...	...	...	...	...	...	642	3	*
History of Education in the United States...	644	5	6	...	...	...	...	...	...	644	5	*
Fundamentals in Early Childhood and Elementary Education	650	5	21	650	5	8	...	...	...	...	...	...
Major Course in Childhood Education.....	651	3	75	651	3	7	...	...	...	652	3	9
Problems in the Direction and Supervision of Elementary Teacher Training.....	658	5	9	...	...	...	...	...	...	658	5	10
Problems of Elementary Teachers in Service Teaching Literature in the High School....	670	5	62	670	5	45	661	2	40	670	5	35
Teaching Composition in High School.....	672	5	43	...	...	...	...	...	...	...	...	...
Teaching Composition in High School.....	...	...	...	671	5	29	...	...	...	671	5	45
The Teaching of Dramatics.....	...	...	...	673	5	*	...	...	...	...	...	...
Spoken English: Teachers' Course.....	675	3	12	...	...	...	...	...	...	...	...	...
Organizing History for the Classroom.....	677	5	48	677	5	29	...	...	...	677	5	36
The Teaching of the Social Studies.....	678	5	38	678	5	27	...	...	...	678	5	42
The Teaching of Biology.....	...	...	...	...	...	...	...	...	...	683	3	71
The Teaching of Chemistry and Physics.....	684	3	10	...	...	...	...	...	...	684	3	26
The Teaching of Nursing.....	...	...	...	...	...	...	...	...	...	685	3	17
The Teaching of Mathematics.....	687	3	20	687	3	31	...	...	...	...	...	...
The Teaching of German.....	...	...	...	...	...	...	690	3	1	...	...	...
Methods and Techniques of Teaching Romance Languages	692	5	41	692	5	18	...	...	...	...	...	...
The Teaching of Latin.....	694	3	15	...	...	...	...	...	...	694	3	19
The Teaching of Mechanical Drawing I.....	696	3	13	696	3	16	...	...	...	...	...	...
The Teaching of Mechanical Drawing II.....	697	3	12	...	...	...	697	3	19	...	...	...
Extra-Curricular Activities of Secondary Schools	699	3	46	...	...	...	699	3	23	...	...	...
Survey of Secondary Education.....	...	...	...	700	5	0	...	...	...	...	...	...
Major Course in Secondary Education I.....	701	5	123	701	5	18	...	...	...	...	...	...
Major Course in Secondary Education II.....	702	5	94	...	...	...	702	5	15	...	...	...
Survey of Higher Education.....	711	5	8	...	...	...	...	...	...	...	...	...
Analysis and Organization of Subject Matter in Industrial Education.....	714	3	20	714	3	10

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Seminary in the Teaching and Supervision of Foreign Languages.....	843	3	6	...	...	...	...	...	...	843	3	0
Higher Education I: Basic Courses.....	845	5	8	...	...	...	...	...	...	...	...	...
Higher Education II: Basic Course.....	...	...	...	...	...	...	846	5	6	...	...	...
Theory & Administration of Higher Education.....	...	...	...	...	...	...	847	5	1	...	...	...
Curriculum and Method of Higher Education.....	...	...	...	...	...	...	...	...	...	848	5	4
Source Materials in Higher Education.....	...	...	...	849	5	...	...	...	...	...	...	...
Teacher Training.....	...	...	...	850	5	13	...	...	...	...	...	...
Achievement Tests in Higher Education.....	...	...	...	...	...	...	852	3	5	...	...	...
Practicum in Industrial Education.....	856	3-5	10	...	...	...	856	5	3	...	...	...
Administration of Industrial Education in Secondary Schools.....	857	3	4	857	3	0	...	...	...	...	...	...
Scientific Studies in the Practical Arts and Vocational Education.....	860	2	6	860	2	4	...	...	...	...	...	...
Seminary in Practical Arts and Vocational Education.....	862	2	6	...	...	...	862	2	6	862	2	0
Research in the Laboratory of Industries.....	866	3	6	...	...	...	...	...	...	...	...	...
Administrative Problems of the City Sup't... ..	871	3	12	...	...	...	...	...	...	...	...	...
Staff Personnel Administration.....	873	3	46	873	4	3	...	...	...	...	...	...
Federal and State School Administration.....	878	3	31	...	...	...	878	3	1	...	...	...
Planning, Constructing and Equipping School Buildings.....	880	5	8	...	...	...	...	...	...	880	5	4
Seminary in School Administration.....	882	2-5	27	882	2-5	8	882	2-5	5	882	2-5	3
Seminary in Special Education.....	...	...	...	...	...	...	...	...	...	887	3-5	0
Research in Education.....	950	...	91	950	...	16	950	...	12	950	...	14
Theses and Dissertations.....	...	...	117	...	...	3	...	...	17	...	...	25
ELECTRICAL ENGINEERING												
Electrical Engineering Survey.....	...	...	...	461	3	60	...	...	...	...	...	...
Direct Current Apparatus.....	601	5	19	601	5	0	...	...	...	601	5	27
Alternating Current Circuits.....	603	5	29	603	5	44	603	5	6	...	...	...
Alternating Current Laboratory.....	604	2	27	604	2	36	604	2	0	...	...	...
Applied Electronics.....	...	...	...	607	4	20	607	4	34	...	...	...
Medium and High Frequency Currents.....	...	...	...	...	...	...	611	5	17	611	5	29
Electrical Engineering.....	...	...	...	642	4	46	642	4	78	642	4	26
Electrical Engineering.....	...	...	...	643	4	0	643	4	47	643	4	63
Electrical Engineering Survey.....	...	...	...	661	3	55	...	...	...	...	...	...
Alternating Current Apparatus.....	...	...	...	701	3	20	701	3	9	...	...	...
Alternating Current Laboratory.....	...	...	...	...	...	...	702	3	17	702	3	7
...	...	...	...	705	4	18	705	4	6	...	...	...

Alternating Current Laboratory.....	710	4	0	706	4	16	706	4	8
Electrical Transportation.....	710	4	0	706	4	16	706	4	8
Communication Engineering.....	716	4	24	717	4	22	717	4	22
Electrical Illumination.....	720	4	10	720	4	10	720	4	10
Electrical Illumination.....	722	3	6	722	3	6	722	3	6
Advanced Electrical Communication.....	726	4	12	726	4	12	726	4	12
Electrical Design.....	730	4	0	730	4	0	730	4	0
Thesis.....	735	3	1	735	3	1	735	3	1
Thesis.....	736	5	0	736	5	0	736	5	0
Electrical Utilities Engineering.....	741	3	24	741	3	24	741	3	24
Electrical Transmission and Distribution.....	742	3	11	742	3	11	742	3	11
Advanced Alternating Current Machinery.....	746	5	7	746	5	7	746	5	7
Advanced Theoretical Study of Electrical Engineering Practice and Equipment.....	760	2	...	760	2	...	760	2	...
Advanced Theoretical Study of Electrical Engineering Practice and Equipment.....	761	3	...	761	3	...	761	3	...
Advanced Theoretical Study of Electrical Engineering Practice and Equipment.....	762	5	...	762	5	...	762	5	...
Special Advanced Laboratory.....	765	0	...	765	0	...	765	0	...
Special Advanced Laboratory.....	766	0	...	766	0	...	766	0	...
Special Advanced Laboratory.....	767	4	...	767	4	...	767	4	...
Application of Advanced Mathematics to Electrical Engineering Problems.....	770	3	0	770	3	0	770	3	0
Engineering Field Problems.....	780	2	6	780	2	6	780	2	6
Electrical Engineering Practice.....	783	23	...	783	23	...	783	23	...
Advanced Theoretical Study of Electrical Engineering Practice and Equipment.....	801	3	8	801	3	8	801	3	8
Advanced Theoretical Study of Electrical Engineering Practice and Equipment.....	802	5	6	802	5	6	802	5	6
Advanced Theoretical Study of Electrical Engineering Practice and Equipment.....	803	7	...	803	7	...	803	7	...
Advanced Laboratory Study of Electrical Engineering Equipment.....	805	1	...	805	1	...	805	1	...
Advanced Laboratory Study of Electrical Engineering Equipment.....	806	0	...	806	0	...	806	0	...
Advanced Laboratory Study of Electrical Engineering Equipment.....	807	0	...	807	0	...	807	0	...
Revolving Fields and Permeances in Electrical Machinery.....	821	3	0	821	3	0	821	3	0
Revolving Fields and Permeances in Electrical Machinery.....	822	3	1	822	3	1	822	3	1
Advanced Synchronous Machine Theory.....	824	3	2	824	3	2	824	3	2
Advanced Synchronous Machine Theory.....	825	3	1	825	3	1	825	3	1
Advanced Synchronous Machine Theory.....	831	3	0	831	3	0	831	3	0
Transmission Networks.....	832	3	0	832	3	0	832	3	0
Electromagnetic Radiation and Radiating Systems.....	832	3	0	832	3	0	832	3	0
Research in Electrical Engineering.....	950	0	950	950	5	950	950	5	950
ENGINEERING DRAWING									
Principles of Engineering Drawing.....	401	4	472	401	4	68	401	4	68
Principles of Engineering Drawing.....	402	4	376	402	4	376	402	4	376

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Descriptive Geometry .....	...	...	...	403	4	59	403	4	10	403	4	275
Descriptive Geometry .....	...	...	...	...	...	...	...	...	...	404	4	47
Principles of Engineering Drawing .....	...	...	...	411	4	20	...	...	...	...	...	...
Principles of Engineering Drawing .....	...	...	...	...	...	...	412	4	17	...	...	...
Descriptive Geometry .....	...	...	...	...	...	...	...	...	...	413	4	15
Drawing and Sketching .....	...	...	...	414	2	42	...	...	...	...	...	...
Descriptive Geometry .....	...	...	...	...	...	...	...	...	...	415	4	17
Elements of Drawing and Lettering .....	...	...	...	...	...	...	...	...	...	416	2	59
Engineering Drawing .....	...	...	...	421	3	62	...	...	...	...	...	...
Machine Drawing .....	...	...	...	...	...	...	422	3	22	...	...	...
Advanced Descriptive Geometry .....	...	...	...	424	4	32	424	4	5	...	...	...
Engineering Drawing .....	...	...	...	425	2	41	...	...	...	...	...	...
Technical Drawing .....	...	...	...	426	3	12	...	...	...	426	3	47
House Planning .....	...	...	...	438	3	30	438	3	30	438	3	29
Chemical Machine Drawing .....	...	...	...	...	...	...	701	2	37	...	...	...
Chemical Plant Layout and Design .....	...	...	...	...	...	...	...	...	...	704	4	40
ENGLISH												
Composition and Reading	401	5	36	401	5	707	401	5	482	401	5	522
Theme Writing	405	5	21	...	...	...	...	...	...	...	...	...
English Composition .....	...	...	...	410	3	502	410	3	261	...	...	...
English Composition .....	...	...	...	...	...	...	411	3	424	411	3	229
English Composition .....	...	...	...	412	3	150	...	...	...	412	3	394
Advanced English for Engineers .....	...	...	...	419	3	62	419	3	48	419	3	50
An Introduction to Literature	430	3	102	430	5	458	430	5	743	430	5	639
Three American Contemporaries	434	3	83	...	...	...	...	...	...	...	...	...
Masters of Modern Literature .....	...	...	...	440	5	171	440	5	216	440	5	174
Nineteenth Century Poetry: Victorian	442	5	19	...	...	...	...	...	...	...	...	...
Shakespeare	450	2	89	450	2	104	450	2	83	450	2	88
Advanced Composition .....	...	...	...	507	5	51	507	5	38	507	5	59
English Words	523	3	43	...	...	...	523	3	39	523	3	41
The English Bible .....	...	...	...	...	...	...	...	...	...	529	5	93
Studies in Criticism .....	...	...	...	605	3	9	...	...	...	...	...	...
American Literature	608	5	40	608	5	67	...	...	...	...	...	...
History of the English Language .....	...	...	...	627	3	24	...	...	...	...	...	...
Dryden to Pope .....	...	...	...	635	5	25	...	...	...	...	...	...
Pope to Blake	636	5	28	...	...	...	636	5	30	...	...	...
Men and Manners of the Enlightenment .....	...	...	...	...	...	...	...	...	...	637	5	31
The Romantic Era	641	5	13	641	5	20	641	5	61	641	5	72
The Victorians .....	...	...	...	641	5	22	642	5	41	642	5	47

Literature and Composition.....	644	5	19	644	5	10	644	3	41	643	5	21
The Late Victorians.....	644	5	12	651	5	10	646	3	5	644	5	43
Middle English.....	651	5	12	651	5	10	646	3	5	644	5	43
Old English Prose and Poetry.....	651	5	12	651	5	10	646	3	5	644	5	43
Early Ballads, Lyric and Drama.....	653	5	21	652	5	*	653	5	20	653	5	20
Chaucer and His Period.....	653	5	21	652	5	*	653	5	20	653	5	20
English Medieval Literature to Chaucer.....	656	5	25	654	5	11	657	5	20	657	5	20
The Novel: Richardson to Scott.....	656	5	25	655	5	*	657	5	20	657	5	20
The Novel: Dickens to Meredith.....	656	5	25	655	5	*	657	5	20	657	5	20
Versification.....	657	5	21	656	5	26	658	5	33	658	5	33
The Short Story.....	657	5	21	656	5	26	658	5	33	658	5	33
Recent and Contemporary Drama.....	657	5	21	656	5	26	658	5	33	658	5	33
Seventeenth Century Literature.....	657	5	21	656	5	26	658	5	33	658	5	33
The English Renaissance.....	657	5	21	656	5	26	658	5	33	658	5	33
Shakespeare.....	657	5	21	656	5	26	658	5	33	658	5	33
Elizabethan Drama.....	657	5	21	656	5	26	658	5	33	658	5	33
The Influence of the Theatre on the Drama.....	657	5	21	656	5	26	658	5	33	658	5	33
Playwriting.....	657	5	21	656	5	26	658	5	33	658	5	33
Stagecraft.....	657	5	21	656	5	26	658	5	33	658	5	33
Play Direction.....	657	5	21	656	5	26	658	5	33	658	5	33
Play Production.....	657	5	21	656	5	26	658	5	33	658	5	33
Proseminary.....	657	5	21	656	5	26	658	5	33	658	5	33
Honors Course.....	657	5	21	656	5	26	658	5	33	658	5	33
Honors Course.....	657	5	21	656	5	26	658	5	33	658	5	33
Honors Course.....	657	5	21	656	5	26	658	5	33	658	5	33
Bibliography and Methods of Research in	657	5	21	656	5	26	658	5	33	658	5	33
English Literature.....	657	5	21	656	5	26	658	5	33	658	5	33
History of the Short Narrative in English.....	657	5	21	656	5	26	658	5	33	658	5	33
The Lyric.....	657	5	21	656	5	26	658	5	33	658	5	33
Studies in Criticism.....	657	5	21	656	5	26	658	5	33	658	5	33
Studies in American Literature.....	657	5	21	656	5	26	658	5	33	658	5	33
Advanced Reading and Study: Milton.....	657	5	21	656	5	26	658	5	33	658	5	33
Advanced Reading and Study: Poetic Rhythms	657	5	21	656	5	26	658	5	33	658	5	33
Advanced Reading and Study: The Romantic	657	5	21	656	5	26	658	5	33	658	5	33
Era.....	657	5	21	656	5	26	658	5	33	658	5	33
Studies in Modern English Language.....	657	5	21	656	5	26	658	5	33	658	5	33
Advanced Reading and Study: The Victorians	657	5	21	656	5	26	658	5	33	658	5	33
Advanced Reading & Study: Contemporary Lit.	657	5	21	656	5	26	658	5	33	658	5	33
Studies in the Age of Enlightenment.....	657	5	21	656	5	26	658	5	33	658	5	33
Studies in the Age of Democracy.....	657	5	21	656	5	26	658	5	33	658	5	33
Studies in American Literature.....	657	5	21	656	5	26	658	5	33	658	5	33
Studies in the Renaissance.....	657	5	21	656	5	26	658	5	33	658	5	33
Problems in Theatrical Art.....	657	5	21	656	5	26	658	5	33	658	5	33
Research.....	657	5	21	656	5	26	658	5	33	658	5	33
PUBLIC SPEAKING												
Principles and Practice of Public Speaking..	401	5	30	401	5	111	401	5	132	401	5	196
Debating.....	401	5	30	401	5	111	401	5	132	401	5	196
Principles and Practice of Oral Reading.....	459	3	12	459	3	54	459	3	79	459	3	19
Business and Professional Speaking.....	459	3	12	459	3	54	459	3	79	459	3	19
Advanced Debate Practice.....	459	3	12	459	3	54	459	3	79	459	3	19
The Forms of Public Address.....	459	3	12	459	3	54	459	3	79	459	3	19
Special Problems in Theory of Public Speaking	459	3	12	459	3	54	459	3	79	459	3	19

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
FINE ARTS												
Elementary Freehand Drawing.....	321	3	37	...	...	...	...	...	...	...	...	...
Advanced Freehand Drawing.....	323	3	20	...	...	...	...	...	...	...	...	...
Elementary Design	331	3	12	...	...	...	...	...	...	...	...	...
Intermediate Design	332	3	12	...	...	...	...	...	...	...	...	...
Water Color Painting.....	341	3	17	...	...	...	...	...	...	...	...	...
Teaching Methods	342	3	40	...	...	...	...	...	...	...	...	...
Sketching	365	2-4	5	...	...	...	...	...	...	...	...	...
Advanced Design for Teachers.....	382	3	15	...	...	...	...	...	...	...	...	...
Freehand Drawing .....	...	...	...	401	2	50	...	...	...	...	...	...
Freehand Drawing .....	...	...	...	...	...	...	402	2	67	...	...	...
Freehand Drawing .....	...	...	...	...	...	...	...	...	...	403	2	41
Advanced Freehand Drawing.....	...	...	...	404	2	10	...	...	...	...	...	...
Advanced Freehand Drawing.....	...	...	...	...	...	...	405	2	8	...	...	...
Water Color Painting.....	...	...	...	407	2	12	...	...	...	407	2	17
Water Color Painting.....	...	...	...	408	3	10	...	...	...	408	3	8
Drawing from Life.....	...	...	...	411	3	4	411	3	15	411	3	5
Drawing from Life.....	...	...	...	412	3	2	412	3	10	412	3	8
Elementary Freehand Drawing.....	421	5	11	421	5	108	421	5	49	421	5	58
Advanced Freehand Drawing.....	423	5	2	423	5	34	423	5	65	423	5	36
Drawing from Life.....	...	...	...	424	5	34	424	5	21	424	5	22
Elementary Design	431	5	8	431	5	77	431	5	87	431	5	140
Intermediate Design .....	...	...	...	431	5	22	432	5	34	432	5	24
Costume Design .....	...	...	...	437	3	41	437	3	23	437	3	42
Water Color Design.....	441	5	7	441	5	10	...	...	...	441	5	18
Oil Painting	442	5	10	442	5	14	442	5	17	442	5	10
History of Ancient Art.....	...	...	...	451	5	87	...	...	...	...	...	...
History of Medieval and Renaissance Art.....	...	...	...	...	...	...	452	5	76	...	...	...
History of Renaissance and Modern Art.....	...	...	...	...	...	...	...	...	...	453	5	70
History of Costume Design.....	...	...	...	...	...	...	456	3	9	...	...	...
Sculpture .....	...	...	...	461	5	8	461	5	10	461	5	14
Appreciation of the Fine Arts.....	...	...	...	479	3	111	479	3	52	479	3	47
Elementary Ceramic Art.....	...	...	...	490	5	10	...	...	...	...	...	...
Elementary Ceramic Art.....	...	...	...	...	...	...	491	5	14	...	...	...
Elementary Ceramic Art.....	...	...	...	...	...	...	...	...	...	...	...	...
Appreciation of Landscape Design.....	...	...	...	...	...	...	...	...	...	500	5	9
Advanced Life Drawing.....	...	...	...	505	5	20	505	5	25	505	5	18
Theory of Landscape Design.....	...	...	...	509	2	11	...	...	...	...	...	...
Theory of Landscape Design.....	...	...	...	...	...	...	510	2	8	...	...	...
Elementary Landscape Design.....	...	...	...	...	...	...	...	...	...	511	2	6

Elementary Landscape Design.....	512	3	8	513	3	9	514	3	9
Elementary Landscape Design.....	515	5	7	516	5	7	517	5	7
Elementary Landscape Design.....	518	8	8	519	8	8	520	8	8
Intermediate Landscape Design.....	524	2	7	525	2	7	526	2	8
Intermediate Landscape Design.....	530			530	3	14	531		
Intermediate Landscape Design.....	533			533	5	22	534	5	15
Advanced Landscape Design.....	534	5	10	534	5	10	537	5	7
Advanced Landscape Design.....	535	5	5	536	5	5	538	3-9	40
Advanced Landscape Design.....	538	3-9	7	538	3-9	21	538	3-9	40
Composition in Planting.....	540			540	5	5	541		
Composition in Planting.....	541	3	9	542	3	9	543	3	9
Composition in Planting.....	544	5	8	544	5	8	544	5	7
History of Landscape Architecture.....	551			551	5	9	552	5	9
Commercial Design.....	553	5	8	553	5	8	553	5	11
Specialized Design.....	560	5	5	560	5	7	560	5	11
Illustrative Drawing.....	562	5	1	562	5	5	562	5	6
Pencil Sketching.....	565	3-15	38	565	3-15	73	567	3-15	89
Arrangement and Planting of Gardens and Small Properties.....	567	3-15	47	566	3-15	73	567	3-15	89
Planting Design.....	569	5	43	570	5	44	570	5	44
Planting Design.....	590	5	8	591	5	5	592	5	4
Planting Design.....	593	5	1	594	5	1	595	5	0
Advanced Water Color Painting.....	600			600	5	18	601		
Landscape Construction.....	645	5	7	646	5	16	647	5	27
Landscape Construction.....	656			656	5	*	654	5	24
Landscape Construction.....	661	3-15	27	662	3-15	36	663	3-15	58
Advanced Oil Painting.....	663	3-15	34	663	3-15	34	663	3-15	58
Advanced Sculpture.....	670	2	30	671	3	28	672	2	30
Technical Problems.....	671	3	28	672	2	30	673	3	30
Technical Problems.....	673			673	3	30	673	3	30
Technical Problems.....	673			673	3	30	673	3	30
The Teaching of Art in the Elem. Schools.....	673			673	3	30	673	3	30
The Teaching of Art in the Elem. Schools.....	673			673	3	30	673	3	30
Ceramic History and Decorative Processes.....	673			673	3	30	673	3	30
Ceramic History and Decorative Processes.....	673			673	3	30	673	3	30
Ceramic History and Decorative Processes.....	673			673	3	30	673	3	30
Ceramic Composition.....	673			673	3	30	673	3	30
Ceramic Composition.....	673			673	3	30	673	3	30
Ceramic Composition.....	673			673	3	30	673	3	30
The Theory and Practice of Teaching Art.....	673			673	3	30	673	3	30
Portrait Painting.....	673			673	3	30	673	3	30
Portrait Painting.....	673			673	3	30	673	3	30
Portrait Painting.....	673			673	3	30	673	3	30
History of Renaissance Art.....	673			673	3	30	673	3	30
History of Oriental Art.....	673			673	3	30	673	3	30
Advanced Technical Problems.....	673			673	3	30	673	3	30
Advanced Technical Problems.....	673			673	3	30	673	3	30
Advanced Technical Problems.....	673			673	3	30	673	3	30
History of the Art of Ancient Egypt and Mesopotamia.....	673			673	3	30	673	3	30
History of Hellenic Art.....	673			673	3	30	673	3	30
History of Moslem Art.....	673			673	3	30	673	3	30
History of Christian Art of the Middle Ages.....	673			673	3	30	673	3	30

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
History of Spanish Art.....	...	...	...	...	...	...	674	2	*	...	...	...
History of English and American Art.....	...	...	...	...	...	...	676	3	16	...	...	...
History of French Art from the Beginning of the 17th Century to the Present.....	...	...	...	...	...	...	...	...	...	677	3	18
History of Art in the Low Countries.....	...	...	...	...	...	...	...	...	...	678	2	6
History of German Art.....	...	...	...	...	...	...	...	...	...	679	3	8
Major Technical Problems.....	...	...	...	801	3-15	15	...	...	...	...	...	...
Major Technical Problems.....	...	...	...	...	...	...	802	3-15	12	...	...	...
Major Technical Problems.....	...	...	...	...	...	...	...	...	...	803	3-15	15
Major Historical Problems.....	...	...	...	804	3-15	5	...	...	...	...	...	...
Major Historical Problems.....	...	...	...	...	...	...	805	3-15	1	...	...	...
Major Historical Problems.....	...	...	...	...	...	...	...	...	...	806	3-15	3
Research in Fine Arts.....	...	...	...	950	...	3	950	...	5	950	...	2
GEOGRAPHY												
Principles of Geography.....	401	5	74	401	5	486	401	5	228	401	5	284
Regional-Economic Geography	403	5	47	403	5	115	403	5	101	403	5	114
Geography of the United States and Canada..	...	...	...	405	5	133	405	5	128	405	5	141
Cartography and Map Interpretation.....	421	3	8	...	...	...	...	...	...	421	3	*
Historical Geography and Commerce of the United States	422	3	31	...	...	...	...	...	...	...	...	...
The Localization of Manufacturing Industries of the United States.....	603	3	17	...	...	...	...	...	...	603	3	20
Conservation and Land Utilization.....	...	...	...	604	3	14	...	...	...	...	...	...
Geography of Ohio.....	...	...	...	...	...	...	605	2	13	...	...	...
Land Utilization	606	2	11	...	...	...	...	...	...	...	...	...
Climatology	615	2	12	615	2	12	...	...	...	...	...	...
Geography of Europe.....	...	...	...	621	3	24	...	...	...	...	...	...
Geography of South America.....	623	3	21	...	...	...	...	...	...	...	...	...
Geography of Latin America.....	...	...	...	...	...	...	624	3	24	...	...	...
Geography of Asia.....	...	...	...	...	...	...	...	...	...	625	3	19
The Historical Geography of Commerce.....	...	...	...	631	3	20	...	...	...	631	3	81
World Industries and Commerce.....	632	3	21	...	...	...	...	...	...	...	...	...
Geography of Modern Commerce.....	...	...	...	633	3	70	...	...	...	...	...	...
The Geography of Urban Centers.....	...	...	...	...	...	...	634	3	18	634	3	8
Field Work in Geography and Commerce.....	641	1-3	0	...	...	...	...	...	...	...	...	...
Special Problems in Geography and Commerce	642	3	5	...	...	...	...	...	...	...	...	...
Anthropogeography .....	...	...	...	...	...	...	651	3	12	...	...	...
Field Work in Geography.....	...	...	...	...	...	...	...	...	...	700	2	5
Special Problems in Geography and Commerce	...	...	...	799	2 or 3	1	799	2 or 3	2	799	2 or 3	6

History of Geography.....	850	2	4	850	2	2	850	2	3	811	2	2
Seminary in Geography and Commerce.....	850	...	8	950	...	1	950	...	3	850	2	1
Research in Geography and Commerce.....	950	...	...	...	...	...	...	...	...	950	...	2
GEOLOGY												
General Geology .....	...	...	...	401	5	256	401	5	114	401	5	99
General Geology .....	...	...	...	402	5	26	402	5	169	402	5	88
The Geology of our Mineral Wealth.....	...	...	...	...	...	...	411	5	39	...	...	...
Geologic Life Development.....	...	...	...	...	...	...	...	...	...	412	5	33
Meteorology .....	...	...	...	...	...	...	...	...	...	420	5	18
Engineering Geology .....	...	...	...	435	5	28	435	5	35	...	...	...
Advanced General Geology: Physiography....	...	...	...	601	5	15	...	...	...	...	...	...
Advanced General Geology: Structural and Dynamic .....	...	...	...	...	...	...	602	5	10	...	...	...
Advanced General Geology: Historical.....	...	...	...	...	...	...	...	...	...	603	5	8
Economic Geology: Metals .....	...	...	...	605	3	9	...	...	...	...	...	...
Economic Geology: Non-metals .....	...	...	...	...	...	...	606	3	7	...	...	...
Economic Geology: Petroleum.....	...	...	...	...	...	...	...	...	...	607	3	17
Stratigraphic Geology of Ohio.....	...	...	...	608	5	*	...	...	...	...	...	...
Petrology .....	...	...	...	...	...	...	609	5	*	...	...	...
Physiography of the United States.....	...	...	...	...	...	...	610	3	12	...	...	...
Special Problems .....	...	...	...	612	3-5	0	612	3-5	1	612	3-5	4
Geological Surveying .....	...	...	...	...	...	...	...	...	...	615	5	6
Clays .....	...	...	...	...	...	...	616	5	0	...	...	...
Introductory Paleontology .....	...	...	...	620	3	8	...	...	...	...	...	...
Introductory Paleontology .....	...	...	...	...	...	...	621	3	7	...	...	...
Introductory Paleontology .....	...	...	...	...	...	...	...	...	...	622	3	6
Micro-Paleontology .....	...	...	...	...	...	...	...	...	...	623	3	0
Advanced Historical Geology.....	...	...	...	801	3	5	...	...	...	...	...	...
Advanced Historical Geology.....	...	...	...	...	...	...	802	3	5	...	...	...
Advanced Historical Geology.....	...	...	...	...	...	...	...	...	...	803	3	4
Advanced Paleontology .....	...	...	...	807	3-4	4	807	3-4	4	807	3-4	1
Geology of the Eastern United States.....	...	...	...	...	...	...	810	3	*	...	...	...
Geology of the Western United States.....	...	...	...	...	...	...	...	...	...	811	3	*
Principles of Sedimentation and Stratigraphy	...	...	...	...	...	...	...	...	...	812	5	7
Seminary in Metamorphic Geology.....	...	...	...	815	2	4	...	...	...	...	...	...
Seminary in Structural Geology.....	...	...	...	...	...	...	816	2	2	...	...	...
Seminary in Earth Tectonics.....	...	...	...	...	...	...	...	...	...	817	2	0
Research in Geology.....	...	...	...	950	...	4	950	...	4	950	...	4
GERMAN												
Elementary German	401	5	22	401	5	293	401	5	84	401	5	56
Elementary German .....	...	...	...	402	5	41	402	5	209	402	5	64
Intermediate German .....	...	...	...	403	5	100	403	5	31	403	5	178
Easy Classical Reading	404	5	16	404	5	84	404	5	65	404	5	81
Science Reading	506	3	13	506	3	13	506	3	34	506	3	84
Elementary Composition	507	2	13	507	2	23	507	2	24	507	2	86
Elementary Composition .....	...	...	...	...	...	...	508	2	8	...	...	...
Advanced German .....	...	...	...	521	3	40	...	...	...	...	...	...
Advanced German	531	3	11
Advanced German	532	3	76
Advanced German	542	3	74

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Proseminary: 18th and 19th Century Literature	621	3	2	...	...	...	...	...	...	...	...	...
Proseminary: 18th and 19th Century Literature .....	...	...	...	651	3	10	...	...	...	...	...	...
Proseminary: 18th and 19th Century Literature .....	...	...	...	...	...	...	652	3	7	...	...	...
German Literature from Romanticism to Present .....	...	...	...	...	...	...	...	...	...	653	3	9
Phonetics .....	...	...	...	655	3	5	...	...	...	...	...	...
Middle High German .....	...	...	...	...	...	...	673	3	11	...	...	...
The German Language .....	...	...	...	...	...	...	...	...	...	675	3	9
Advanced Composition .....	...	...	...	...	...	...	...	...	...	685	3	8
Special Problems	695	2-10	2	695	2-10	7	695	2-10	5	695	2-10	7
Advanced Middle High German .....	...	...	...	801	3	*	801	3	*	...	...	...
Gothic .....	...	...	...	...	...	...	805	3	*	...	...	...
Old High German .....	...	...	...	...	...	...	...	...	...	810	3	*
Seminary in German Literature	860	3	4	860	3	5	860	3	3	860	3	3
Research in German	950	...	3	950	...	3	950	...	1	950	...	0
HISTORY												
Modern European History to 1815 .....	...	...	...	401	5	360	401	5	168	401	5	137
Modern Europe since 1815	402	5	28	401	5	80	402	5	207	402	5	152
History of the United States (1763-1850)	403	5	50	403	5	612	403	5	288	403	5	266
History of the United States (1850-1925) .....	...	...	...	404	5	140	404	5	384	404	5	241
Medieval Europe (400-1500) .....	...	...	...	407	5	27	...	...	...	...	...	...
Outline of the History of Western Civilization .....	...	...	...	408	5	43	...	...	...	...	...	...
Outline of the History of Western Civilization .....	...	...	...	...	...	...	409	5	49	...	...	...
Outline of the History of Western Civilization .....	...	...	...	...	...	...	...	...	...	410	5	46
English History to 1603-A.D. ....	...	...	...	421	5	24	...	...	...	...	...	...
England since 1603 .....	...	...	...	...	...	...	422	5	23	...	...	...
The History of Ohio	437	3	19	...	...	...	...	...	...	437	3	31
The Renaissance	607	3	22	607	3	40	...	...	...	...	...	...
The Reformation .....	...	...	...	...	...	...	608	3	27	...	...	...
Constitutional History of England to 1485	611	3	11	611	3	17	...	...	...	...	...	...
Constitutional History of England since 1485 .....	...	...	...	...	...	...	612	3	20	...	...	...
England in the Tudor Period .....	...	...	...	...	...	...	613	3	13	...	...	...
England in the Stuart Period	614	3	48	...	...	...	...	...	...	...	...	...
The Absolute Monarchy (1650-1789)	617	3	35	617	3	11	...	...	...	...	...	...
Medieval Civilization .....	...	...	...	...	...	...	619	3	9	...	...	...
Expansion of Europe to 1588 .....	...	...	...	621	3	23	...	...	...	...	...	...

Expansion of Europe from 1588 to 1815.....	...	...	...	...	...	...	622	3	*	...	...	...
Expansion of Europe from 1815 to present....	623	3	31	...	...	...	...	...	...	623	3	29
The French Revolution and Napoleon.....	...	...	...	624	3	13	...	...	...	...	...	...
The Third French Republic.....	...	...	...	...	...	...	625	3	10	...	...	...
The Reconstruction of Europe (1919-1932)...	628	3	51	...	...	...	...	...	...	628	3	41
Modern Germany (1878-1919).....	629	3	56	...	...	...	629	3	28	...	...	...
The Diplomacy of Europe—1878-1919.....	...	...	...	630	3	21	...	...	...	...	...	...
Constitutional History of the U. S. to 1837...	631	3	25	...	...	...	...	...	...	...	...	...
Constitutional History since 1837.....	...	...	...	632	3	8	...	...	...	...	...	...
The Slavery Controversy in the United States	633	3	58	633	3	28	...	...	...	...	...	...
Reconstruction of the New South (1863-1925)	634	3	42	...	...	...	634	3	18	...	...	...
American Diplomacy to the Close of Civil War	...	...	...	...	...	...	635	3	11	...	...	...
American Diplomacy since the Civil War....	...	...	...	...	...	...	...	...	...	636	3	24
Recent History of the United States (1875-1930)	...	...	...	637	3	61	...	...	...	...	...	...
Recent History of the United States (1875-1930)	...	...	...	...	...	...	638	3	65	...	...	...
The Influence of Immigrant Groups on	...	...	...	...	...	...	...	...	...	...	...	...
United States History.....	...	...	...	...	...	...	...	...	...	639	5	59
The Pioneer in American History to 1812....	...	...	...	...	...	...	640	3	14	...	...	...
The Pioneer in American History since 1812..	...	...	...	...	...	...	...	...	...	641	3	*
Political Parties in the United States.....	643	5	31	643	5	23	...	...	...	...	...	...
The Colonization of North America.....	644	3	42	...	...	...	...	...	...	644	3	7
Latin America .....	...	...	...	645	3	14	...	...	...	...	...	...
The Latin-American Republics.....	...	...	...	...	...	...	646	5	20	...	...	...
History of Canada.....	...	...	...	...	...	...	...	...	...	647	5	31
Greek Civilization .....	...	...	...	649	3	15	...	...	...	...	...	...
Roman Civilization .....	...	...	...	...	...	...	650	3	14	...	...	...
The Ancient History of the Near East.....	...	...	...	653	3	10	...	...	...	...	...	...
The Age of the Crusades.....	...	...	...	...	...	...	655	5	25	654	3	7
Greek History .....	...	...	...	...	...	...	...	...	...	656	5	27
Roman History .....	...	...	...	...	...	...	...	...	...	...	...	...
Honors Course .....	...	...	...	705	3-5	0	705	3-5	1	...	...	...
Honors Course .....	...	...	...	...	...	...	706	3-5	2	...	...	...
Honors Course .....	...	...	...	...	...	...	...	...	...	707	3-5	1
Introduction to Historical Research.....	812	3	22	812	3	10	...	...	...	...	...	...
Great European Historians.....	...	...	...	...	...	...	813	3	13	...	...	...
Great American Historians.....	...	...	...	...	...	...	...	...	...	814	2	*
Seminary in European History.....	815	3	21	815	3	10	...	...	...	...	...	...
Seminary in European History.....	...	...	...	...	...	...	816	3	10	...	...	...
Seminary in European History.....	...	...	...	...	...	...	...	...	...	817	3	5
Seminary in American History.....	819	3	22	819	3	13	...	...	...	...	...	...
Seminary in American History.....	...	...	...	...	...	...	820	3	12	...	...	...
Seminary in American History.....	...	...	...	...	...	...	...	...	...	821	3	9
Research	950	...	30	950	...	18	950	...	11	950	...	16

HOME ECONOMICS

An Introduction to Home Economics.....	...	...	...	400	1	108	...	...	...	...	...	...
Textiles	401	3	14	401	3	44	401	3	49	401	3	27
Clothing .....	...	...	...	402	5	19	402	5	13	402	5	33
Foods .....	...	...	...	411	5	56	411	5	21	411	5	69
Foods .....	...	...	...	412	5	31	412	5	61	...	...	...
Diet in Disease.....	...	...	...	426	1	15	...	...	...	...	...	...
Clothing	503	5	25	503	5	17	503	5	13
Household Equipment	506	5	22	506	5	27	506	5	47

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Clothing	508	5	37	...	...	...	508	5	16	508	6	17
Elements of Nutrition.....	510	5	60	...	...	...	510	5	59	...	...	...
Home Hygiene .....	...	...	...	511	3	26	511	3	25	511	3	33
Home Furnishing .....	...	...	...	512	5	15	512	5	21	512	5	35
Elements of Home Making.....	...	...	...	...	...	...	...	...	...	518	5	34
The Teaching of Home Economics.....	540	3	34	...	...	...	...	...	...	540	3	23
Principles and Methods of Teaching Applied to Home Economics.....	...	...	...	541	5	15	541	5	20	541	5	12
Supervised Home Economics Teaching.....	...	...	...	542	7	10	542	7	9	542	7	24
Clothing	601	3	15	601	3	7	...	...	...	601	3	27
Textiles	602	3	10	...	...	...	...	...	...	602	3	14
Textiles and Clothing.....	604	5	13	...	...	...	...	...	...	...	...	...
Nutrition	611	5	15	611	5	18	611	5	23	611	5	31
Nutrition .....	...	...	...	...	...	...	...	...	...	612	5	22
Foods	614	3	15	614	3	29	614	3	29	...	...	...
Nutrition of Infants and Children.....	616	3	12	...	...	...	...	...	...	...	...	...
Child Development .....	...	...	...	621	5	27	621	5	33	621	5	29
Principles of Home Management.....	...	...	...	626	3	33	626	3	30	626	3	18
Laboratory in Home Management.....	627	4	20	627	4	14	627	4	27	627	4	28
Purchase of Foods for Institutions.....	...	...	...	...	...	...	...	...	...	630	3	31
Institutional Cookery and Equipment.....	...	...	...	631	5	17	631	5	11	...	...	...
Institutional Organization and Administration.....	...	...	...	632	5	17	632	5	11	...	...	...
School Lunchroom Management.....	633	3	15	...	...	...	...	...	...	633	3	7
Problems in the Teaching of Home Economics.....	644	3	7	...	...	...	...	...	...	...	...	...
Special Problems in Home Economics.....	701	3-15	28	701	3-15	12	701	3-15	24	701	3-15	27
Seminary in Home Economics Teaching.....	...	...	...	...	...	...	...	...	...	802	3-5	*
Seminary in Foods and Nutrition.....	...	...	...	803	3	5	...	...	...	...	...	...
Research in Home Economics.....	950	...	3	950	...	0	950	...	5	950	...	6
HORTICULTURE AND FORESTRY												
Principles of Horticulture.....	...	...	...	401	5	43	...	...	...	...	...	...
General Horticulture .....	...	...	...	405	5	24	...	...	...	405	5	32
Elementary Plant Propagation.....	...	...	...	440	3	19	...	...	...	...	...	...
Principles and Practices of Pomology.....	...	...	...	503	5	10	...	...	...	...	...	...
Principles and Practices of Pomology.....	...	...	...	...	...	...	504	5	22	...	...	...
Potato Culture and Commercial Vegetable Gardening .....	...	...	...	...	...	...	522	5	20	...	...	...
Horticultural Products .....	...	...	...	523	3	11	...	...	...	...	...	...
Vegetable Forcing .....	...	...	...	...	...	...	...	...	...	525	3	*
Principles and Practices of Floriculture.....	...	...	...	542	5	11	...	...	...	...	...	...

Principles and Practices of Floriculture.....	...	...	...	...	...	543	5	11	...	...	...
Garden Management .....	...	...	...	...	...	...	...	...	544	5	20
Flower Store Management .....	...	...	...	...	...	...	...	...	546	3	*
Ornamental Plants .....	...	...	550	5	18	...	...	...	...	...	...
Ornamental Plants .....	...	...	...	...	...	...	...	...	551	5	11
Horticultural Plant Breeding.....	...	...	...	...	...	601	3	20	...	...	...
Experimental Horticulture .....	...	...	602	3	14	...	...	...	...	...	...
Experimental Horticulture .....	...	...	...	...	...	603	3	0	...	...	...
The Literature of Horticulture.....	...	...	...	...	...	605	3	10	...	...	...
Advanced Vegetable Gardening.....	...	...	...	...	...	...	...	...	622	5	*
The Marketing of Fruits and Vegetables.....	...	...	...	...	...	...	...	...	628	5	7
Advanced Plant Propagation.....	...	...	...	...	...	649	5	12	...	...	...
Structure of Vegetables and Ornamental Plants .....	...	...	652	3	14	...	...	...	...	...	...
Structure of Economic Fruits.....	...	...	...	...	...	653	3	7	...	...	...
Arboriculture .....	...	...	683	3	14	...	...	...	...	...	...
Minor Investigations .....	...	...	701	3-15	30	701	3-15	30	701	3-15	27
Horticulture Seminary .....	...	...	704	1	10	704	1	10	704	1	0
Research in Horticulture and Forestry.....	...	...	950	...	4	950	...	7	950	...	3
FORESTRY											
Forestry .....	...	...	410	5	26	410	5	0	...	...	...
Farm Woodlot Management.....	...	...	...	...	...	...	...	...	502	5	13
Wood Technology .....	...	...	...	...	...	507	5	13	...	...	...
Dendrology .....	...	...	508	5	15	...	...	...	...	...	...
Artificial Forest Reproduction.....	...	...	...	...	...	...	...	...	509	5	9
Minor Investigations in Forestry.....	...	...	701	3-5	0	701	3-5	0	701	3-5	0
INDUSTRIAL ENGINEERING											
Survey of Industrial Engineering.....	...	...	401	½	20	...	...	...	...	...	...
Survey of Industrial Engineering.....	...	...	...	...	...	402	½	20	...	...	...
Survey of Industrial Engineering.....	...	...	...	...	...	...	...	...	403	½	20
Foundry Practice .....	...	...	405	3	46	405	3	22	405	3	23
Patternmaking	411	3	70	411	3	26	411	3	29	...	...
Forging and Heat Treating.....	...	...	415	3	12	415	3	5	...	...	...
Forging, Shop-Heat-Treating and Welding...	418	3	104	418	3	31	418	3	34	...	...
Elementary Machine Work.....	419	3	56	419	3	26	419	3	43	419	3
Advanced Machine Work.....	421	3	33	421	3	17	421	3	13	421	3
Engineering Organization .....	...	...	601	4	25	601	4	12	601	4	16
Laws of Engineering Management.....	...	...	602	3	7	602	3	29	...	...	...
Work Analysis .....	...	...	603	3	0	...	...	...	603	3	36
Foundry Research .....	...	...	...	...	...	...	...	...	605	3	2
Advanced Machine Work.....	...	...	623	3	14	623	3	24	...	...	...
Inspection Trip .....	...	...	...	...	...	...	...	...	630	1	26
Work Analysis Laboratory.....	...	...	...	...	...	...	...	...	653	3	35
Production Control Charts.....	...	...	661	3	8	661	3	12	661	3	36
Selection of Manufacturing Equipment.....	...	...	701	3	35	...	...	...	...	...	...
Work Routing .....	...	...	...	...	...	702	4	34	...	...	...
Methods of Waste Elimination.....	...	...	...	...	...	...	...	...	706	4	41
Principles of Industrial Engineering.....	...	...	712	3	12	712	3	10	712	3	13
Inspection Trip	730	1	31
Tool Engineering	751	3	37
Work Routing Laboratory.....	752	3	35

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Thesis	754	3-12	5	754	3-12	5	754	3-12	5
Elementary Production Control.....	761	3	30	761	3	8	...	...	...
Advanced Production Control.....	762	3	26	762	3	13
Production Control Research.....	763	3	0	...	...	...	763	3	16
Research in Industrial Engineering.....	950	...	0	950	...	0	950	...	0
JOURNALISM												
Introduction to Journalism.....	401	5	72	401	5	40	402	5	28
News Collecting and News Writing.....	402	5	10	402	5	47	402	5	35
Agricultural Journalism	407	3	24	407	3	21	407	3	34
Copyreading	501	3	18	...	...	...	501	3	32
Feature Writing	502	3	32	502	3	18
Newspaper Ethics and Principles.....	513	3	20	...	...	...	513	3	32
Newspaper History and Comparative Journalism	517	5	43	...	...	...
Newspaper Organization	518	3	30	...	...	...	518	3	21
Newspaper Printing	519	2	32	...	...	...	519	2	20
The Weekly Newspaper.....	525	3	14	...	...	...
Special Newspaper Problems.....	607	2	20	...	...	...	607	2	12
Social Newspaper Problems.....	608	2	36	...	...	...
Editorial Writing	621	3	18	...	...	...	621	3	19
The Press and Public Opinion.....	622	3	33	...	...	...
The Newspaper Business Office.....	626	3	7	...	...	...	626	3	28
The Newspaper as a Force in Human Progress	802	2	0	...	...	...	...	...	...
The Newspaper as a Force in Human Progress	803	2	0	...	...	...
The Newspaper as a Force in Human Progress	804	2	0
LAW												
Contracts	4	135	...	4	126	...	4	127
Torts	4	137	...	3	128	...	2	126
Agency	2	127	...	3	123
Property I	4	126	...	2	126
Equity I	4	128
Civil Procedure at the Common Law.....	3	133	...	3	123	...	...	...
Personal Property	3	133	...	...	...	...	...	...
Evidence	3	69	...	3	67
Equity II	4	62	...	3	66	...	...	...
Administration of Debtors Estates.....	2	19	...	4	17
Real Property II.....	4	62
Domestic Relations	3	60	...	...	...	...	...	...

Code Pleading .....	...	...	...	...	4	29	...	4	72	...	...	...
Public Utilities .....	...	...	...	...	4	59	...	...	...	...	...	...
Sales .....	...	...	...	...	4	68	...	...	...	...	...	...
Wills and Administration .....	...	...	...	...	4	14	...	...	...	...	...	...
Future Interests .....	...	...	...	...	4	14	...	...	...	...	...	...
Legal Ethics .....	...	...	...	...	...	...	...	...	...	...	2	58
Criminal Law .....	...	...	...	...	...	...	...	2	43	...	3	43
Criminal Procedure .....	...	...	...	...	...	...	...	...	...	...	2	55
Conflict of Laws .....	...	...	...	...	...	...	...	3	44	...	3	44
Legal Bibliography .....	...	...	...	...	2	31	...	...	...	...	...	...
Mortgages .....	...	...	...	...	...	...	...	...	...	...	3	59
Suretyship .....	...	...	...	...	...	...	...	...	...	...	3	38
Negotiable Instruments .....	...	...	...	...	...	...	...	4	62	...	...	...
Appellate Practice .....	...	...	...	...	...	...	...	3	9	...	...	...
Constitutional Law .....	...	...	...	...	3	53	...	3	52	...	3	52
Trial Practice .....	...	...	...	...	...	52	...	...	...	...	...	...
Equity III .....	...	...	...	...	3	38	...	...	...	...	...	...
Partnership .....	...	...	...	...	3	45	...	...	...	...	...	...
Trusts .....	...	...	...	...	3	69	...	3	58	...	...	...
Legal Method .....	...	...	...	...	3	4	...	...	...	...	...	...
Private Corporations .....	...	...	...	...	...	...	...	4	55	...	2	54
Municipal Corporations .....	...	...	...	...	...	...	...	3	20	...	...	...
Practice Court .....	...	...	...	...	...	...	...	...	...	...	2	20
Special Problems .....	...	...	...	...	1-6	0	...	1-6	0	...	1-6	0
Trusts and Estates .....	...	...	...	...	3	0	...	4	3	0	...	...
Constitutional Law Seminar .....	...	...	...	...	3	7	...	...	3	6	...	6

MATHEMATICS

College Algebra .....	...	...	...	421	5	429	421	5	239	421	5	189
Plane Trigonometry .....	...	...	...	422	5	52	422	5	199	422	5	144
Analytic Geometry .....	...	...	...	...	...	...	...	...	...	423	5	35
Mathematics of Finance .....	...	...	...	429	5	37	429	5	40	...	...	...
Plane Trigonometry	431	5	20	...	...	...	431	5	330	431	5	165
College Algebra .....	...	...	...	432	5	452	432	5	121	...	...	...
Analytic Geometry	433	5	28	433	5	93	...	...	...	433	5	331
Elementary Mathematical Statistics .....	...	...	...	...	...	...	...	...	...	435	5	11
Calculus for Architects .....	...	...	...	440	5	17	...	...	...	...	...	...
Calculus	441	5	16	441	5	236	441	5	89	...	...	...
Calculus .....	...	...	...	...	...	...	442	5	194	442	5	93
Calculus .....	...	...	...	443	5	61	...	...	...	443	5	162
Advanced Calculus .....	...	...	...	501	3	24	...	...	...	...	...	...
Differential Equations .....	...	...	...	...	...	...	502	3	23	...	...	...
Vector Analysis .....	...	...	...	...	...	...	...	...	...	503	3	21
Advanced Calculus	601	5	43	601	5	26	...	...	...	...	...	...
Introduction to the Theory of Functions of a Complex Variable .....	...	...	...	...	...	...	607	5	10	...	...	...
Differential Equations .....	...	...	...	...	...	...	611	5	23	...	...	...
Introduction to Modern Mathematics .....	...	...	...	617	5	*	...	...	...	...	...	...
Advanced Euclidian Geometry	621	5	26	...	...	...	621	5	30	...	...	...
Projective Geometry .....	...	...	...	...	...	...	...	...	...	623	5	13
Solid Analytic Geometry	625	5	22
Elementary Theory of Equations	641	5	21
Vector Analysis	661	5	12

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Introduction to the Theory of Relativity...	671	5	16	...	...	...	...	...	...	...	...	...
Probability	691	5	0	...	...	...	...	...	...
Finite Differences	692	5	0	...	...	...
Statistics	696	5	0
Minor Problems	700	3-5	4	700	3-5	3	700	3-5	0	700	3-5	0
Introduction to Analysis I.....	701	3	10	...	...	9	...	...	...
Introduction to Analysis II.....	702	3	...	...	...	...
Introduction to Analysis III.....	703	5	8
Introduction to Higher Geometry.....	741	5	14	...	...	...	...	...	...
Introduction to Higher Geometry II.....	742	5	14	...	...	...
Introduction to Higher Geometry III.....	743	5	9
Introduction to Higher Algebra I.....	761	5	*	...	...	...	...	...	...
Introduction to Higher Algebra II.....	762	5	*	...	...	...
Introduction to Higher Algebra III.....	763	5	*
Theory of Functions of a Complex Variable.....	801	3-10	*	802	3-10	*	803	3-10	*
Point Sets and Real Functions.....	804	5	9	...	...	...	...	...	...
Point Sets and Real Functions.....	805	5	11	...	...	...	805	5	7	...	...	...
Point Sets and Real Functions.....	806	5	0
Ordinary and Partial Differential Equations.....	807	3	*	...	...	...	...	...	...
Ordinary and Partial Differential Equations.....	808	3	*	...	...	...
Ordinary and Partial Differential Equations.....	809	3	*
Calculus of Variations.....	810	3	0	...	...	...	...	...	...
Calculus of Variations.....	811	3	*	...	...	...
Calculus of Variations.....	812	3	*
Mathematical Methods in Theoretical Physics.....	813	3	17	...	...	...	...	...	...
Mathematical Methods in Theoretical Physics.....	814	3	17	...	...	...
Fourier's Series and Spherical Harmonics.....	816	5	20
Infinite Series and Products.....	818	3	*	...	...	...	...	...	...
Partial Differential Equations.....	825	3	13	...	...	...	...	...	...	...	...	...
Differential Geometry	841	3	*	...	...	...	...	...	...
Differential Geometry	842	3	*	...	...	...
Differential Geometry	843	3	*
Theory of Fields.....	861	3	7	...	...	...	...	...	...
Theory of Matrices.....	862	3	9	...	...	...	...	...	...	...	...	...
Linear Algebras	867	3	0	...	...	...
Research in Mathematics.....	950	...	5	950	...	7	950	...	5	950	...	4
MECHANICAL ENGINEERING												
Heat-Power Engineering	409	3	51
Introduction to Mechanical Engineering.....	411	2	58	...	...	...	...	...	...

Introduction to Mechanical Engineering.....	...	...	...	...	...	412	2	49	...	...	...
Materials of Engineering.....	...	...	...	...	...	...	...	...	427	3	29
Heat-Power Engineering.....	...	...	...	...	...	507	4	29	...	...	...
Heat-Power Engineering.....	...	...	509	3	46	...	...	...	...	...	...
Machine Design.....	...	...	513	5	22	...	...	...	...	...	...
Machine Design.....	...	...	...	...	...	514	4	46	...	...	...
Machine Design.....	...	...	...	...	...	...	...	...	515	5	41
Mechanical Engineering Laboratory.....	...	...	531	2	25	...	...	...	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	532	2	20	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	...	...	533	2	17
Heating and Ventilating.....	...	...	551	2	16	...	...	...	...	...	...
Heating and Ventilating.....	...	...	...	...	...	572	4	0	...	...	...
Mechanical Engineering Laboratory.....	...	...	573	4	37	...	...	...	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	574	4	24	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	576	2	16	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	...	...	577	2	16
Heating and Ventilating.....	...	...	...	...	...	...	...	...	605	4	49
Heat-Power Engineering.....	...	...	607	5	52	...	...	...	...	...	...
Heat-Power Engineering.....	...	...	...	...	...	608	5	46	...	...	...
Heat-Power Engineering.....	...	...	...	...	...	...	...	...	609	3	44
Mechanism.....	...	...	615	5	34	615	5	27	...	...	...
Mechanical Engineering Laboratory.....	...	...	617	4	38	...	...	...	...	...	...
Internal Combustion Engines.....	...	...	...	...	...	...	...	...	625	3	42
Materials of Engineering.....	...	...	627	5	32	627	5	25	...	...	...
Inspection Trip to the West.....	...	...	...	...	...	...	...	...	630	...	46
Reading Course.....	...	...	...	...	...	...	...	...	634	...	0
A.S.M.E. Student-Branch Meetings.....	...	...	651	1/2	53	...	...	...	...	...	...
A.S.M.E. Student-Branch Meetings.....	...	...	...	...	...	652	1/2	55	...	...	...
A.S.M.E. Student-Branch Meetings.....	...	...	...	...	...	...	...	...	653	1/2	50
Mechanical Engineering Laboratory.....	...	...	...	...	...	664	3	45	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	...	...	665	3	42
Automotive Engineering.....	...	...	...	...	...	704	3	24	...	...	...
Automotive Engineering.....	...	...	...	...	...	...	...	...	705	3	18
Diesel Engines.....	...	...	...	...	...	...	...	...	725	3	20
Machine Design.....	...	...	727	5	89	...	...	...	...	...	...
Machine Design.....	...	...	...	...	...	728	5	90	...	...	...
Inspection Trip to the East.....	...	...	...	...	...	...	...	...	730	...	50
Reading Course.....	...	...	...	...	...	...	...	...	734	...	0
Hydraulic Machinery.....	...	...	742	3	44	...	...	...	...	...	...
Machine Design.....	...	...	...	...	...	...	...	...	743	3	39
Machine Design.....	...	...	...	...	...	...	...	...	744	5	47
Thesis Work.....	...	...	748	3	1	748	3	5	748	3	6
A.S.M.E. Student-Branch Meetings.....	...	...	751	1/2	48	...	...	...	...	...	...
A.S.M.E. Student-Branch Meetings.....	...	...	...	...	...	752	1/2	47	...	...	...
A.S.M.E. Student-Branch Meetings.....	...	...	...	...	...	...	...	...	753	1/2	46
Aeronautical and Automotive Engines.....	...	...	756	3	19	...	...	...	...	...	...
Aeronautical Engineering.....	...	...	...	...	...	757	3	23	...	...	...
Mechanical Engineering Laboratory.....	...	...	779	3	50	...	...	...	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	780	3	47	...	...	...
Mechanical Engineering Laboratory.....	...	...	...	...	...	...	...	...	781	3	45
Special Problems in Advanced Mechanical Engineering.....	799	2-10	3	799	2-10	14	799	2-10	11

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Advanced Mechanical Engineering.....	804	2-8	1	804	2-8	1	804	2-8	0
Research in Mechanical Engineering.....	950	...	5	950	...	5	950	...	5
MECHANICS												
Statics	501	5	16
Statics	503	5	50
Statics	601	5	164	601	5	35	...	...	...
Strength of Materials.....	602	5	79	602	5	147	602	5	37
Strength of Materials.....	605	2	50	605	2	75	605	2	163
Dynamics and Hydraulics.....	607	3	37	607	3	78	607	3	189
Advanced Strength of Materials.....	702	3	0	...	...	...	...	...	...
Advanced Dynamics	707	3	0	...	...	...
Mechanics of Fluids.....	710	3	0
Advanced Theoretical Mechanics.....	801	3	4	...	...	...	...	...	...
Advanced Theoretical Mechanics.....	802	3	5	...	...	...
Advanced Theoretical Mechanics.....	803	3	8
MEDICAL AND SURGICAL RESEARCH												
Principles of Surgery.....	601	1	29	...	...	...
Medical Research	701	3-5	86	702	3-5	86	...	...	...
MEDICAL CLINICS												
Medical & Surgical—Pediatrics & Obstetrics..	600	5	89	600	5	89	600	5	89
Medical & Surgical—Pediatrics & Obstetrics..	650	5	86	650	5	86	650	5	86
MEDICINE												
Introduction to Clinical Medicine.....	600	1	100	...	...	...	...	...	...
*Medicine, General and Clinical.....	602	2	89	603	2	88	604	2	88
Nervous Diseases	605	3	88
Dermatology	606	2	88
Medicine: Special Topics, Ethics, etc.....	608	1	86	609	1	86	610	1	86
Psychiatry	611	1	86	...	...	...
Pediatrics, Didactic	612	2	89	...	...	...	...	...	...
Case Studies	614	2	86
Pediatrics, Didactic and Clinical.....	615	2	86	...	...	...	...	...	...
Pediatrics, Didactic and Clinical.....	616	2	86	617	2	86
Tuberculosis	619	2	9
Syphilology	623	1	53
Clinical Medicine	625	2	96
Human Heredity	626	1	98

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Visceral Neurology	630	2	5	
Localization in the Nervous System	631	2	0	
Hygiene and Sanitation	635	3	86	
Hygiene and Sanitation (Advanced) .....	...	...	...	...	636	3	0	637	3	0
Oral Hygiene .....	...	...	...	...	644	1	8	...	...	...
Allergy .....	...	...	...	...	...	...	...	645	1	45
Cardiology .....	...	...	...	...	...	...	...	646	1	48
Physical Diagnosis .....	...	...	...	...	650	2	96	651	2	98
*Medical Law .....	...	...	...	...	...	...	...	601	2	86
METALLURGY											
Elementary Fuel Testing .....	...	...	401	2	14	...	...	...	...	...
Metallurgical Analysis .....	...	...	...	...	...	405	5	17	...	...
Metallurgical Analysis .....	...	...	...	...	...	...	...	406	5	13
Fire Assaying	410	3	8	410	3	14
Metallurgical Analysis .....	...	...	451	3	8	...	...	...	...	...
Ceramic Analysis .....	...	...	...	...	...	452	4	7	...	...
Ceramic Analysis .....	...	...	...	...	...	...	...	453	4	6
Iron and Steel Metallurgy .....	...	...	605	3	12	...	...	...	...	...
Principles of Metallography .....	...	...	606	3	16	...	...	606	3	28
Non-Ferrous Metallurgy .....	...	...	...	...	...	...	...	610	5	13
Principles of Ore Dressing .....	...	...	620	5	21	...	...	...	...	...
Inspection Trip .....	...	...	...	...	...	...	...	645	...	7
Pyrometry .....	...	...	650	2	8	650	2	11	...	...
Fuels .....	...	...	651	3	54	651	3	23	...	...
Gas Testing and Calorimetry .....	...	...	652	1	0	...	...	...	...	...
General Metallurgy .....	...	...	...	...	...	...	...	665	5	41
Advanced Metallography .....	...	...	...	...	...	701	4	11	...	...
Metallurgical Construction .....	...	...	...	...	...	705	4	9	...	...
Metallurgical Construction .....	...	...	...	...	...	...	...	706	4	9
Advanced Fuel Testing and Problems .....	...	...	709	4	11	...	...	...	...	...
Metallurgical Investigations	710	3-5	9	710	3-5	9	710	3-5	14
Metallurgical Investigations	711	5	2	711	5	5	711	See	710
Ore Dressing	720	3	12
Thesis	725	5-6	7	725	5-6	2	725	5-6	0
Research in Metallurgy	950	...	4	950	...	4	950	...	4
MINE ENGINEERING											
Mine Surveying .....	...	...	...	...	...	...	...	406	4	14
Mine Surveying .....	...	...	501	5	14	...	...	501	5	10
Prospecting and Preliminary Operations .....	...	...	601	5	8	...	...	...	...	...
Explosives and Rock Work .....	...	...	...	...	...	602	3	15	...	...
Inspection Trip .....	...	...	...	...	...	...	...	630	2	10
Development and Methods of Mining .....	...	...	...	...	...	...	...	701	3	9
Mine Operations .....	...	...	702	5	6	...	...	...	...	...
Mine Examinations and Reports .....	...	...	...	...	...	703	5	5	...	...
Petroleum Engineering .....	...	...	721	5	0	...	...	...	...	...
Thesis	741	5	1	741	5	0	741	5	4
Mine Investigations	750	3-8	2	750	3-8	6	750	3-8	6
Principles of Mining .....	...	...	...	...	...	...	...	760	3	0
Research in Mine Engineering	950	...	0	950	...	0	950	...	0

Intermediate Sight Singing and Ear Training	482	3	7	482	3	29	482	3	0	...	...	...
Intermediate Sight Singing and Ear Training	483	3	7	...	...	...	483	3	20	...	...	...
Advanced Sight Singing and Ear Training...	487	2	10	...	...	...	...	...	...	...	...	...
Applied Music (Piano).....	...	...	...	560	1	68	560	1	68	560	1	79
Applied Music (Voice).....	...	...	...	561	1	72	561	1	74	561	1	74
Applied Music (Violin).....	...	...	...	562	1	30	562	1	20	562	1	11
Applied Music (Woodwind).....	563	1	18	563	1	19	563	1	25	563	1	11
Applied Music (Brass).....	564	1	15	564	1	12	564	1	18	564	1	9
Applied Music (Percussion).....	...	...	...	565	1	7	...	...	...	565	1	14
Applied Music (Miscellaneous Band and Orchestra Instruments: Small Ensemble).....	...	...	...	566	1	15	566	1	17	566	1	17
The Romanticists.....	...	...	...	601	4	46	...	...	...	...	...	...
Wagner and the Music Drama.....	602	3	31	602	3	12	...	...	...	...	...	...
Modern Music.....	...	...	...	...	...	...	603	4	45	...	...	...
History of Choral Music.....	...	...	...	...	...	...	...	...	...	605	3	17
Music in the Junior High School.....	610	3	15	610	3	29	...	...	...	...	...	...
High School Music.....	611	3	16	...	...	...	...	...	...	611	3	17
Supervision of Music in Elementary Schools...	612	3	9	...	...	...	...	...	...	...	...	...
Supervision of Music in Secondary Schools...	613	3	11	...	...	...	...	...	...	...	...	...
Instrumentation.....	630	3	16	630	3	36	...	...	...	...	...	...
Instrumentation.....	632	3	9	...	...	...	632	3	36	...	...	...
Organization and Conducting of the School Band and Orchestra.....	642	2	18	...	...	...	642	2	32	...	...	...
Band and Orchestra Materials.....	...	...	...	...	...	...	...	...	...	643	3	14
Minor Problems.....	650	1-5	23	650	1-5	17	650	1-5	12	650	1-5	23
Research in Music.....	950	...	9	950	...	11	950	...	7	950	...	7
University Chorus.....	...	...	...	A	1	140	A	1	138	A	1	127
University Orchestra.....	...	...	...	B	1	87	B	1	89	B	1	89
The University Band.....	...	...	...	C	1	264	C	1	210	C	1	209
Concert Bands.....	...	...	...	D	1	86	D	1	88	D	1	85
Glee Club (Bands).....	...	...	...	E	0	62	E	0	58	E	0	50
Beginning Orchestra.....	...	...	...	F	1	58	F	1	72	F	1	63
Glee Club (Men).....	...	...	...	G	0	84	G	0	75	G	0	65
OBSTETRICS												
Obstetrics, Normal.....	...	...	...	...	...	...	...	...	...	601	3	101
Obstetrics, Abnormal.....	...	...	...	602	3	86	...	...	...	...	...	...
Obstetrics, Pathological.....	...	...	...	...	...	...	603	3	86	...	...	...
Clinical Obstetrics.....	605	4	24	605	4	24	605	4	24	605	4	24
Advanced Obstetrics.....	701	5-15	0	701	5-15	0	701	5-15	0	701	5-15	0
OPHTHALMOLOGY												
Ophthalmology.....	...	...	...	601	3	89	...	...	...	...	...	...
Pathology of the Eye.....	...	...	...	...	...	...	...	...	...	622	2	20
OTO-LARYNGOLOGY												
Oto-Laryngology.....	...	...	...	...	...	...	...	...	...	602	3	88
PATHOLOGY												
Elementary Pathology.....	...	...	...	...	...	...	...	...	...	401	2	16
General Pathology.....	600	1	88
General Pathology.....	601	1	95
Special Pathology.....	602	5	96

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Clinical Pathology	603	3	95	...	...	...	...	...	...
Clinical Pathology	606	2	45	604	3	94
Medical Pathology	607	1	20	607	1	30	607	1	20
Post-Mortem Demonstration	608	3-5	11	...	...	...	...	...	...
Advanced Pathology	609	3-5	7	...	...	...
Advanced Pathology	610	3-5	8
Advanced Pathology	611	3-5	0	...	...	...	...	...	...
Advanced Special Pathology	612	3-5	0	...	...	...
Advanced Special Pathology	613	3-5	8
Advanced Special Pathology	614	3-5	0	...	...	...
Experimental Pathology	615	3-5	0
Experimental Pathology	616	3	10	...	...	...	...	...	...
Advanced Clinical Pathology	617	3	4	...	...	...
Advanced Clinical Pathology	618	3	0
Advanced Clinical Pathology	619	1	0	...	...	...	...	...	...
Neuropathology	620	1	0	...	...	...
Neuropathology	621	1	0
Neuropathology	625	3	95	...	...	...
Special Pathology	626	3	95
Special Pathology
General Pathology	650	3	73	...	...	...	...	...	...
General Pathology	651	3	67	...	...	...
General Pathology	652	2	44
Dental Pathology	654	3	9	654	3	4
Clinical Pathology	660	1	3	...	...	...	660	1	2
Pathology Lectures	661	3	2	...	...	...
General Pathology	666	3	3	...	...	...
Pathologic Technique	667	3	2
Pathologic Technique	813	3	6	...	...	...	...	...	...
Research in Clinical Pathology	814	3	1	...	...	...
Research in Clinical Pathology	950	...	0	950	...	0	950	...	0
Research in Pathology
PHARMACY												
Pharmacy Survey	400	1	55	...	...	...	...	...	...
Pharmacy	401	5	62	...	...	...
Pharmacy	402	5	42
Pharmacy	403	5	41	...	...	...	...	...	...
Pharmacy	404	5	43	...	...	...	...	...	...
Pharmacy	405	5	36	...	...	...
Pharmacognosy: Commercial	422	5	22	...	...	...	422	5	36

Pharmaceutical Arithmetic .....	...	...	...	425	5	57	425	5	14	...	...	...
Pharmaceutical Arithmetic .....	...	...	...	...	...	...	426	5	49	426	5	11
Pharmacy: Applied .....	...	...	...	...	...	...	...	...	...	427	3	40
Current Pharmaceutical and Technical Literature .....	...	...	...	428	2	32	...	...	...	...	...	...
Pharmacy .....	...	...	...	501	5	5	...	...	...	501	5	39
Pharmacy: Commercial .....	...	...	...	...	...	...	...	...	...	505	5	33
Materia Medica .....	...	...	...	607	3	34	...	...	...	...	...	...
Materia Medica .....	...	...	...	...	...	...	608	3	31	...	...	...
Materia Medica .....	...	...	...	...	...	...	...	...	...	609	3	35
Pharmaceutical Analysis .....	...	...	...	610	5	34	...	...	...	...	...	...
Pharmaceutical Analysis .....	...	...	...	...	...	...	611	5	33	...	...	...
Pharmaceutical Analysis .....	...	...	...	...	...	...	...	...	...	612	5	35
Pharmacognosy: Microscopical .....	...	...	...	616	3	30	...	...	...	...	4	...
Pharmacognosy: Microscopical .....	...	...	...	...	...	...	617	3	31	...	...	...
Pharmacognosy: Microscopical .....	...	...	...	...	...	...	...	...	...	618	3	32
Toxicology .....	...	...	...	...	...	...	...	...	...	619	5	34
Thesis .....	...	...	...	...	...	...	...	...	...	631	3	35
Minor Problems .....	...	...	...	700	3	32	701	3	25	...	...	...

PHILOSOPHY

Types of Philosophy.....	400	3	65	...	...	...	...	...	...	...	...	...
Introduction to Philosophy.....	...	...	...	401	5	31	401	5	27	401	5	50
Introduction to Reflective Thinking.....	...	...	...	402	5	66	402	5	38	402	5	42
Formal Logic .....	...	...	...	...	...	...	...	...	...	403	5	5
Elementary Ethics	405	5	13	405	5	27	405	5	65	405	5	78
Esthetics .....	...	...	...	...	...	...	515	5	31	...	...	...
Ancient Philosophy	601	5	14	601	5	37	...	...	...	...	...	...
Modern Philosophy of Kant.....	...	...	...	...	...	...	602	5	34	...	...	...
Philosophy since 1800.....	...	...	...	...	...	...	...	...	...	603	5	20
American Philosophy .....	...	...	...	606	3	3	...	...	...	...	...	...
Development of the Hebrew Ideas in the Old Testament .....	...	...	...	...	...	...	...	...	...	607	5	*
Philosophy and Poetry.....	...	...	...	...	...	...	608	3	*	...	...	...
Medieval Philosophy .....	...	...	...	...	...	...	609	3	0	...	...	...
Origins of Christian Thought.....	610	5	3	...	...	...	...	...	...	...	...	...
Origin and Development of Religious Ideas.....	...	...	...	611	5	16	...	...	...	...	...	...
Representative Greek Philosophers.....	...	...	...	...	...	...	623	5	0	...	...	...
Representative Modern Philosophers.....	...	...	...	...	...	...	625	5	*	...	...	...
Philosophy of Science.....	...	...	...	...	...	...	652	3	2	...	...	...
Philosophy of Religion.....	...	...	...	...	...	...	...	...	...	653	5	11
Principles of Social Ethics.....	...	...	...	...	...	...	...	...	...	656	3	11
Minor Problems	660	2-10	8	660	2-10	6	660	2-10	2	660	2-10	8
Metaphysics of Knowledge and Nature.....	...	...	...	...	...	...	661	3	*	...	...	...
Metaphysics of Personality and Values.....	...	...	...	...	...	...	...	...	...	662	3	*
Philosophy of History .....	...	...	...	...	...	...	...	...	...	665	3	3
Seminary in Systematic Philosophy.....	...	...	...	801	3	4	...	...	...	...	...	...
Seminary in Systematic Philosophy.....	...	...	...	...	...	...	802	3	3	...	...	...
Seminary in Systematic Philosophy.....	...	...	...	...	...	...	...	...	...	803	3	3
Seminary in Systematic Philosophy.....	804	3	1
Scientific Method	895	5	*
Research in Philosophy.....	950	...	1	950	...	8	950	...	3	950	...	7

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
PHONETICS												
Elements of Speech.....	401	5	53	401	5	46	401	5	79
General Phonetics: Physiological.....	403	5	15	...	5	32	...	...	...
General Phonetics: Practical.....	407	5	...	...	...	...
English Diction and Voice Hygiene.....	413	5	38
Clinical Practice in Speech Correction.....	604	5	11	...	...	...	...	...	...
Standard American Pronunciation.....	605	5	11	...	...	...
Lip-reading Techniques.....	606	5	10
Minor Research: Human Speech.....	700	3-5	3	700	3-5	11	700	3-5	8
Research in Phonetics.....	950	...	1	950	...	2	950	...	4
PHOTOGRAPHY												
Photography.....	611	3	28	...	...	...	611	3	27
Engineering Photography.....	650	2	0
Scientific Photography.....	725	3	0	...	...	...
Advanced Photography.....	750	3	12	...	...	...
PHYSICAL EDUCATION												
Hygiene.....	400	1	772	400	1	1124	400	1	1016
Physical Education (Men).....	401	1	2148	...	...	...	...	...	...
Physical Education (Men).....	402	1	1903	...	...	...
Physical Education (Men).....	403	1	1802
Hygiene (Men and Women).....	410	3	26	...	...	...	410	3	50
Physical Education Activities (Men).....	411	1	34	...	...	...	...	...	...
Physical Education Activities (Men).....	412	1	40	...	...	...
Physical Education Activities (Men).....	413	1	26
Physical Education Activities (Men).....	414	0	34	...	...	...	...	...	...
Physical Education Activities (Men).....	415	0	35	...	...	...
Physical Education Activities (Men).....	416	0	26
Physical Education (Women).....	421	1	775	...	...	...	...	...	...
Physical Education (Women).....	422	1	761	...	...	...
Physical Education (Women).....	423	1	703
Physical Education (Women).....	425	1	686	...	...	...	...	...	...
Physical Education (Women).....	426	1	535	...	...	...
Physical Education (Women).....	427	1	688
Theory and Practice of Physical Educ. (Men).....	443	2	22
Theory and Practice of Physical Educ. (Men).....	446	3	23	...	...	...	446	3	28	...	...	...
Theory and Practice of Physical Educ. (Men).....	447	3	22
Theory and Practice of Physical Educ. (Men).....	449	3	55	449	3	32	...	...	...	...	...	...

Theory and Practice of Physical Education for High Schools (Men).....	452	3	45	...	...	...	...	...	...	...	...	...
Rhythms for the Elementary School (Women).....	456	3	25	...	...	...	...	...	...	...	...	...
Folk Dancing (Men and Women).....	460	2	24	...	...	...	...	...	...	...	...	...
Elementary Interpretative Dancing (Men and Women).....	464	1	24	...	...	...	...	...	...	...	...	...
Tumbling, Stunts, and Self-testing Activities (Men).....	468	2	28	...	...	...	...	...	...	...	...	...
Group Games for Boys (Men).....	469	2	20	...	...	...	...	...	...	...	...	...
Team Sports II (Women).....	471	1	22	...	...	...	...	...	...	...	...	...
Individual Sports (Women).....	474	1	12	...	...	...	...	...	...	...	...	...
Creative Physical Education for Elementary Teachers (Women).....	...	...	...	...	...	...	...	...	...	476	3	48
Play and Playground (Men and Women).....	482	2	20	...	...	...	...	...	...	...	...	...
Individual Gymnastics (Men and Women).....	492	2	12	...	...	...	...	...	...	...	...	...
Physical Examinations and Therapeutic Gym- nastics (Men and Women).....	...	...	...	...	...	...	...	...	...	493	5	13
Elementary and Intermediate Swimming (Women).....	495	1	151	...	...	...	...	...	...	...	...	...
Advanced Swimming (Women).....	496	1	23	...	...	...	...	...	...	...	...	...
The Teaching of Swimming (Men).....	498	2	21	...	...	...	...	...	...	...	...	...
Physical Education .....	...	...	...	525	Incl. in 1	401	...	...	...	...	...	...
Physical Education .....	...	...	...	...	...	...	526	Incl. in 1	402	...	...	...
Physical Education .....	...	...	...	...	...	...	...	...	...	527	Incl. in 1	403
Physical Education .....	...	...	...	528	Incl. in 1	401	...	...	...	...	...	...
Physical Education .....	...	...	...	...	...	...	529	Incl. in 1	402	...	...	...
Physical Education .....	...	...	...	...	...	...	...	...	...	530	Incl. in 1	403
Theory and Practice of Physical Education (Women) .....	...	...	...	541	3	26	...	...	...	...	...	...
Theory and Practice of Physical Education (Women) .....	...	...	...	...	...	...	542	3	29	...	...	...
Theory and Practice of Physical Education (Women) .....	...	...	...	...	...	...	...	...	...	543	3	23
Theory and Practice of Physical Education (Women) .....	...	...	...	545	3	16	...	...	...	...	...	...
Theory and Practice of Physical Education (Women) .....	...	...	...	...	...	...	549	3	20	...	...	...
Theory and Practice of Physical Education (Women) .....	...	...	...	550	3	19	...	...	...	...	...	...
Theory and Practice of Physical Education (Women) .....	...	...	...	551	2	0	551	2	6	551	2	4
Principles of Football Coaching and Manage- ment (Men)	601	3	19	...	...	...	...	...	...	...	...	...
Problems in Intramural Sports (Men and Women)	615	3	19	...	...	...	...	...	...	615	3	14
Principles of Physical Education (Men and Women)	621	5	47	...	...	...	621	5	58	...	...	...

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Tests and Measurements in Physical Education (Men and Women).....	625	3	16	...	...	...	625	3	11	...	...	...
Individual Physical Education (Men and Women).....	...	...	...	630	3	17	...	...	...	...	...	...
Dance Composition (Men and Women).....	...	...	...	...	...	...	631	3	8	...	...	...
Rhythmic Analysis (Men and Women).....	...	...	...	...	...	...	...	...	...	632	3	5
Problems in Sports for Girls and Women (Men and Women).....	635	3	23	...	...	...	...	...	...	635	3	15
Personal Health Problems (Men and Women).....	...	...	...	...	...	...	...	...	...	641	3	29
Principles of Health Education (Men and Women).....	643	3	92	643	3	59	...	...	...	...	...	...
The Teaching of Health in Secondary Schools and Colleges (Men and Women).....	644	3	65	...	...	...	644	3	31	...	...	...
Professional Preparation of Teachers in Physical and Health Education (Men and Women).....	646	3	4	646	3	0	...	...	...	...	...	...
The Teaching of Physical Education (Men).....	...	...	...	...	...	...	647	3	27	...	...	...
Camping: Its Organization and Administration (Men and Women).....	...	...	...	...	...	...	...	...	...	649	3	19
Minor Problems in Physical Education (Men and Women).....	651	1-4	13	651	1-4	5	651	1-4	6	651	1-4	14
Survey and Clinical Practice in the Care of the Physically Handicapped (Men and Women).....	...	...	...	...	...	...	652	3	4	...	...	...
Organization and Administration of Physical Education (Men and Women).....	682	5	35	...	...	...	682	5	39	...	...	...
Prevention and Care of Injuries (Men).....	685	3	14	685	3	15	...	...	...	...	...	...
Kinesiology (Men and Women).....	...	...	...	691	3	27	...	...	...	...	...	...
The School Health Service (Men and Women).....	...	...	...	...	...	...	...	...	...	692	3	41
Seminary in Health Education (Men and Women).....	...	...	...	801	2	7	...	...	...	...	...	...
Seminary in Physical Education (Men and Women).....	802	2	21	...	...	...	802	2	6	...	...	...
Seminary in Athletics (Men and Women).....	803	2	28	...	...	...	...	...	...	803	2	6
Physical Education in Schools and Colleges (Men and Women).....	805	3	15	...	...	...	...	...	...	805	3	3
Scientific Studies in Physical Education (Men and Women).....	810	3	9	810	3	3	...	...	...	...	...	...
Problems in Interscholastic and Intercollegiate Athletics (Men and Women).....	816	3	21	816	3	21	...	...	...	...	...	...
Problems in Health Education (Men and Women).....	...	...	...	...	...	...	...	...	...	820	3	7

Supervision of Physical and Health Education
(Men and Women).....
Research in Physical and Health Education..

950	...	9	826	4	3	950	...	0	950	...	6
...	...	...	950	...	4	...	...	...	...	...	...
PHYSICS AND ASTRONOMY											
General Physics: Mechanics, Wave Motion and Sound	411	5	26	411	5	425	411	5	73	...	...
General Physics: Heat, Light, Spectroscopy..	412	5	9	...	...	...	412	5	322	...	...
General Physics: Magnetism, Electricity and Electronics .....	...	...	...	...	...	...	...	...	...	413	5
General Physics for Engineers: Mechanics...	431	5	5	431	5	198	431	5	94	...	...
General Physics for Engineers: Heat, Sound and Light	432	5	13	...	...	...	432	5	194	432	5
General Physics for Engineers: Electricity and Magnetism .....	...	...	...	433	5	17	...	...	...	433	5
Electricity and Magnetism .....	...	...	...	435	3	67	...	...	...	...	...
Electricity and Magnetism .....	...	...	...	...	...	...	436	5	40	...	...
Electrical Measurements and Photometry.....	...	...	...	...	...	...	...	...	...	437	5
Geometrical and Physical Optics .....	...	...	...	501	5	41	...	...	...	...	...
Geometrical and Physical Optics .....	...	...	...	...	...	...	502	5	32	...	...
Geometrical and Physical Optics .....	...	...	...	...	...	...	...	...	...	503	5
Introduction to Contemporary Physics	509	5	10	509	5	16	...	...	...	...	...
Physical Optics .....	...	...	...	...	...	...	607	4	3	...	...
Advanced Electricity	608	4	9	608	4	13	...	...	...	...	...
Molecular Physics and Heat .....	...	...	...	609	4	11	...	...	...	...	...
Conduction of Electricity through Gases and Radioactivity .....	...	...	...	...	...	...	610	4	14	...	...
Modern Spectroscopy .....	...	...	...	...	...	...	...	...	...	611	4
Periodic and Transient Electric Currents.....	...	...	...	...	...	...	...	...	...	612	4
Photoelectric Phenomena	614	4	15	...	...	...	...	...	...	...	...
Advanced Physical Laboratory	616	3-24	23	616	3-24	10	616	3-24	13	616	3-24
X-Rays and Atomic Structure	620	4	6	620	4	14	...	...	...	...	...
Acoustics .....	...	...	...	...	...	...	621	4	6	...	...
Thermionics and High Vacuum Phenomena..	...	...	...	...	...	...	...	...	...	622	4
Introduction to Theoretical Physics .....	...	...	...	623	3	11	...	...	...	...	...
Introduction to Theoretical Physics .....	...	...	...	...	...	...	624	3	10	...	...
Introduction to Theoretical Physics .....	...	...	...	...	...	...	...	...	...	625	3
Minor Investigations .....	...	...	...	630	3-5	4	630	3-5	3	630	3-5
Modern Views Concerning the Physical Universe	640	3	16	...	...	...	...	...	...	...	...
Development of Classical and Modern Physics	641	3	9	...	...	...	...	...	...	...	...
X-rays and Crystal Structure .....	...	...	...	...	...	...	654	3	*	...	...
Modern Theories of Electricity .....	...	...	...	738	4	7	...	...	...	738	4
Electromagnetic Theory of Light .....	...	...	...	801	3	14	...	...	...	...	...
Thermo-dynamics .....	...	...	...	...	...	...	803	3	*	...	...
Thermo-dynamics .....	...	...	...	...	...	...	...	...	...	804	3
Theory of Electricity and Magnetism .....	...	...	...	...	...	...	805	3	18	...	...
Theory of Electricity and Magnetism .....	...	...	...	...	...	...	...	...	...	806	3
General Theory of Small Oscillations .....	...	...	...	809	3	4	...	...	...	...	...
Applications of the Theory of Oscillations.....	...	...	...	...	...	...	810	3	4	...	...
Applications of the Theory of Oscillations.....	...	...	...	...	...	...	...	...	...	811	3
Line Spectra and Atomic Structure	813	3	5	...	...	...	...	...	...	...	...

Physiological Chemistry .....	...	...	...	633	2	56	...	...	...	...	...	...
Materia Medica .....	...	...	...	670	2	48	...	...	...	...	...	...
Pharmacology .....	...	...	...	...	...	...	...	...	671	5	92	...
Methods of Biologic Drug Assay .....	...	...	...	...	...	...	...	...	675	2	10	...
Therapeutics .....	...	...	...	...	...	...	680	2	91	...	...	...
Bio-Chemical Preparations .....	...	...	...	...	...	...	...	...	807	3	0	...
Seminary in Physiological Chemistry .....	...	...	...	...	...	...	...	...	813	2	0	...
Biochemical Biography .....	...	...	...	...	...	...	...	...	815	1	4	...
Chemistry of Medicinal Substances .....	...	...	...	...	...	...	830	3	6	...	...	...
Research in Physiological Chemistry and Pharmacology .....	...	...	...	950	...	2	950	...	5	950	...	5
PHYSIOLOGY												
Elementary Physiology	407	5	37	407	5	286	407	5	100	407	5	53
Elementary Physiology	408	5	45	408	5	46	408	5	165	408	5	74
Elementary Physiology .....	...	...	...	...	...	...	409	5	106	409	5	50
Elementary Physiology .....	...	...	...	...	...	...	...	...	...	412	3	0
Comparative Physiology .....	...	...	...	413	4	16	...	...	...	...	...	...
Comparative Physiology .....	...	...	...	...	...	...	414	4	21	...	...	...
Comparative Physiology .....	...	...	...	...	...	...	...	...	...	415	4	27
Comparative Physiology .....	...	...	...	...	...	...	416	5	22	...	...	...
Comparative Physiology .....	...	...	...	...	...	...	...	...	...	417	5	19
Principles of Physiology .....	...	...	...	...	...	...	...	...	...	419	5	45
Advanced Physiology .....	...	...	...	604	6	52	...	...	...	...	...	...
Advanced Physiology .....	...	...	...	...	...	...	605	6	54	...	...	...
Physiology .....	...	...	...	...	...	...	...	...	...	607	2	52
Physiological Laboratory .....	...	...	...	611	5	0	...	...	...	...	...	...
Physiological Laboratory .....	...	...	...	...	...	...	612	5	0	...	...	...
Physiological Laboratory .....	...	...	...	...	...	...	...	...	...	613	5	4
Advanced Physiology .....	...	...	...	615	5	5	...	...	...	...	...	...
Advanced Physiology .....	...	...	...	...	...	...	616	5	9	...	...	...
Physiology of Metabolism .....	...	...	...	618	3-5	5	...	...	...	...	...	...
Physiology of Reproduction .....	...	...	...	...	...	...	619	3-5	0	...	...	...
Physiology of Exercise .....	...	...	...	...	...	...	...	...	...	620	5	44
Physiological Technique .....	...	...	...	621	3	11	...	...	...	...	...	...
General Physiology .....	...	...	...	...	...	...	...	...	...	623	5	4
Introduction to Applied Physiology .....	...	...	...	...	...	...	...	...	...	634	4	88
Applied Physiology .....	...	...	...	635	5	91	...	...	...	...	...	...
Applied Physiology .....	...	...	...	...	...	...	636	5	90	...	...	...
Minor Problems	700	3-5	3	700	3-5	7	700	3-5	12	700	3-5	9
Seminary in Physiology .....	...	...	...	815	1	0	816	1	4	...	...	...
Seminary in Physiology .....	...	...	...	...	...	...	...	...	...	817	1	3
Research in Physiology	950	...	2	950	...	1	950	...	2	950	...	1
POLITICAL SCIENCE												
American National Government	401	5	19	401	5	254	401	5	167	401	5	258
Government and Politics of Foreign Countries	402	5	30	402	5	100	402	5	124	402	5	120
American State Government .....	...	...	...	403	5	49	403	5	67	403	5	97
Government in the United States	410	3	15	...	...	...	...	...	...	...	...	...
Principles of Public Administration I .....	...	...	...	...	...	...	605	5	31	...	...	...
Municipal Government .....	...	...	...	607	5	22	...	...	...	607	5	44
Problems of County and Rural Government	610	3	9
Introduction to Jurisprudence	611	5	31

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
International Law	612	5	38	...	...	...
Contemporary International Politics.....	613	5	65
Administration of Justice.....	615	3	27
American Constitutional Law.....	616	3	43	...	...	...
Administrative Law	617	5	15
Ancient and Medieval Political Thought.....	621	3	17	...	...	...	...	...	...
Modern Political Thought.....	622	3	27	...	...	...
Contemporary Political Thought.....	623	3	25
Methods of Governmental Research.....	631	3	*	...	...	...	...	...	...
Legislation	633	3	16	633	3	15	...	...	...	...	...	...
Public Opinion and Political Processes.....	634	5	40	...	...	...	...	...	...
Elections and Parties.....	635	5	7	...	...	...	635	5	25	...	...	...
Honors Courses	705	3-5	0	...	...	...	...	...	...
Honors Courses	706	3-5	0	...	...	...
Honors Courses	707	3-5	0
Political Thought	805	3-5	2	805	3-5	1	805	3-5	0
Comparative Government	806	3-5	2	806	3-5	1	806	3-5	0
Public Opinion and Political Parties.....	807	3-5	3	807	3-5	0	807	3-5	0	807	3-5	1
Public Administration	808	3-5	8	808	3-5	0	808	3-5	0	808	3-5	0
Municipal Government	809	3-5	1	809	3-5	0	809	3-5	2
International Relations	810	3-5	0	810	3-5	1	810	3-5	1
Public Law	811	3-5	1	811	3-5	2	811	3-5	0
Research in Political Science.....	950	...	10	950	...	10	950	...	11	950	...	5
POULTRY HUSBANDRY												
Principles of Poultry Husbandry.....	401	5	27	401	5	43	401	5	38
Poultry Judging and Breeding.....	402	3-5	*	...	...	...	...	...	...
Poultry Feeding	409	3	17	...	...	...
Commercial Poultry Production and Manage- ment	412	5	*	...	...	...
Poultry Farm Sanitation.....	413	5	*
Poultry Production for Students in Veter- inary Medicine	415	4	66
Marketing and Processing Poultry Products..	603	3	4	...	...	...	...	...	...
Poultry Genetics	606	5	7	...	...	...	607	...	...
Advanced Poultry Nutrition.....	607	5	2
Special Problems in Poultry Husbandry.....	701	3-15	1	701	3-15	0	701	3-15	0
Research in Poultry Husbandry.....	950	...	1	950	...	0	950	...	0

PSYCHOLOGY

Probation	...	...	...	...	...	000	0	*	000	0	*	
Elementary Psychology	401	5	123	401	5	764	401	5	372	401	5	581
Elementary Psychology	402	5	40	402	5	181	402	5	253	402	5	197
Elementary Psychology	407	5	111	407	5	166	407	5	229	407	5	271
Mental Hygiene	...	...	...	...	...	...	408	3	77	...	...	...
Introduction to Applied Psychology	...	...	...	...	...	...	...	...	...	409	3	19
Psychology of Effective Study and Individual Adjustment	...	...	...	411	3	27	411	3	49	411	3	59
Psychological Problems in Engineering	...	...	...	...	...	...	...	...	...	501	3	27
Experimental Psychology	...	...	...	601	3	23	...	...	...	...	...	...
Experimental Psychology	...	...	...	...	...	...	602	3	18	...	...	...
Experimental Psychology	...	...	...	...	...	...	...	...	...	603	3	12
Physiological Psychology	...	...	...	605	3	29	...	...	...	...	...	...
Advanced Physiological Psychology	...	...	...	...	...	...	606	3	17	...	...	...
Genetic Psychology	607	5	30	...	...	...	...	...	...	607	5	61
Educational Statistics: Elementary	608	4	40	608	4	22	...	...	...	...	...	...
The Exceptional Child	609	3	29	...	...	...	609	3	44	609	3	42
Adolescence	610	3	52	610	3	41	...	...	...	...	...	...
The Mentally Deficient Child	...	...	...	611	3	58	...	...	...	...	...	...
Mental and Educational Tests	613	3	13	...	...	...	613	3	37	...	...	...
Laboratory in Tests and Educational Diagnosis	...	...	...	...	...	...	...	...	...	615	3	8
Individual Testing by the Binet-Simon Method	616	2	5	616	2	20	616	2	14	...	...	...
Advanced Binet Testing	...	...	...	...	...	...	617	2	7	617	2	8
Clinical Tests	618	2	5	618	2	15	...	...	...	618	2	15
Psychological Clinic	619	2	5	619	2	5	619	2	5	619	2	4
Advanced Psychological Clinic	...	...	...	620	2	2	620	2	5	620	2	7
Social Psychology	621	3	24	...	...	...	621	3	39	...	...	...
Psychology of the Delinquent Child	622	3	54	...	...	...	...	...	...	622	3	71
Psychology of Vision and Hearing	...	...	...	...	...	...	...	...	...	624	5	*
Problems in Learning and Thinking	626	3	8	...	...	...	626	3	15	...	...	...
Principles and Economy of Learning	...	...	...	...	...	...	628	3	13	...	...	...
Advanced Psychology	629	5	10	629	5	11	...	...	...	...	...	...
Psychology of Feeling and Emotion	...	...	...	...	...	...	630	5	13	...	...	...
Psychological Theories of Ability	...	...	...	...	...	...	631	3	*	...	...	...
Criminal and Legal Psychology	...	...	...	...	...	...	634	5	45	...	...	...
Psychology of Advertising	...	...	...	635	3	22	...	...	...	635	3	63
Industrial Psychology	...	...	...	637	3	26	...	...	...	...	...	...
Industrial and Vocational Psychology Lab.	...	...	...	...	...	...	...	...	...	638	3	6
Psychology and Personnel	...	...	...	...	...	...	639	3	29	...	...	...
Educational and Vocational Guidance	640	3	13	...	...	...	640	3	19	...	...	...
Abnormal Psychology	641	5	53	...	...	...	641	5	59	...	...	...
Psychopathology	...	...	...	...	...	...	...	...	...	642	3	*
Human Motives and Incentives	644	3	19	...	...	...	644	3	21	...	...	...
History of Psychology	...	...	...	645	5	15	...	...	...	...	...	...
Principles of Human Behavior	...	...	...	...	...	...	...	...	...	646	3	20
Theoretical Psychology	...	...	...	...	...	...	647	3	10	...	...	...
Minor Problems	650	1	16	650	1	21	640	1	18	650	1	19
Psychology of High School Subjects	...	...	...	...	...	...	...	...	...	652	3	10
Comparative Psychology	...	...	...	655	5	15	...	...	...	...	...	...
Comparative Psychology	...	...	...	...	...	...	...	...	...	656	3	7
Comparative Psychology Laboratory	657	3	0
University Personnel Psychology	659	3	6

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Comparative Psychology Laboratory.....	...	3	...	...	...	...	662	3	34	660	3	0
The Pre-School Child.....	662	3	28	...	...	...	...	...	...	...	...	...
Psychology of the Elementary School Child...	663	5	9	663	5	42	...	...	...	...	...	...
Research Problems of the Dean of Women...	674	1	1	...	...	...	674	1	0	674	1	1
Methods and Viewpoints in Educational Psychology .....	...	...	...	...	...	...	676	3	9	...	...	...
Graphic Methods .....	...	3	...	...	...	...	...	...	...	677	...	...
Psychology of Personality.....	678	3	32	...	...	...	...	...	...	678	...	20
Educational Tests and Measurements.....	680	3	21	...	...	...	...	...	...	680	...	4
Seminary in Experimental Psychology.....	...	...	...	802	...	6	802	2	8	802	...	4
Seminary in Educational Psychology.....	803	2	7	803	2	0	...	2	...	...	...	...
Seminary in Tests and Measurements.....	...	...	...	...	...	...	804	1	...	...	...	...
Contemporary Psychological Literature.....	...	...	...	805	1	11	805	1	7	805	1	12
Seminary in Abnormal Psychology.....	...	...	...	...	...	...	806	2	9	806	2	16
Seminary in Industrial Psychology.....	...	...	...	...	...	...	807	2	0	...	...	...
Psycho-Analysis .....	...	...	...	808	2	22	...	...	...	...	...	...
Psychological Problems in Higher Education...	...	...	...	810	2	*	...	...	...	...	...	...
Advanced Theoretical Psychology.....	...	...	...	811	3	3	...	...	...	...	...	...
Advanced Statistics .....	...	...	...	...	...	...	...	...	...	814	3	4
Seminary in Psychological Statistics.....	...	...	...	815	2	*	815	2	*	...	...	...
Psychological Problems of Adult Life.....	...	...	...	825	2	14	...	...	...	...	...	...
Research in Psychology.....	950	...	16	950	...	26	950	...	26	950	...	24
ROMANCE LANGUAGES												
FRENCH												
Elementary French	401	5	20	401	5	213	401	5	72	401	5	33
Elementary French	402	5	15	402	5	77	402	5	154	402	5	59
Intermediate French	403	5	6	403	5	126	403	5	68	403	5	90
Intermediate French .....	...	...	...	404	5	116	404	5	101	404	5	69
Elementary French Conversation and Com- position .....	...	...	...	410	5	42	410	5	34	410	5	43
Introduction to French Literature.....	413	5	12	413	5	33	413	5	60	413	5	52
Introduction to French Literature.....	...	...	...	414	5	35	414	5	22	414	5	35
French Literature of 17th Century—1680-1715	...	...	...	...	...	...	600	5	10	...	...	...
French Literature of 17th Century—1600-1660	601	5	12	...	...	...	...	...	...	...	...	...
French Literature of 17th Century—1660-1680	...	...	...	602	5	21	...	...	...	...	...	...
French Literature of 19th Century.....	...	...	...	...	...	...	...	...	...	603	5	20
French Literature of 15th and 16th Centuries	...	...	...	605	3	11	...	...	...	...	...	...
French Literature of 16th Century.....	606	3	6
French Literature of 18th Century—1700-1750	607	3	*

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French Literature of 18th Century—1750-1789	608	3	23
The French Novel to 1850	609	3
The French Novel, 1850 to Present Day	...	...	...	...	...	...	610	3	...	...	...
The Comedy of Manners in 19th Century—1800-1880	...	...	...	...	...	...	...	...	...	...	...
The Comedy of Manners in 19th Century—1880-1914	...	...	...	611	3	20	...	...	...	...	...
Cours de Style	623	3	4	623	3	14	612	3	18	...	...
Cours de Style	...	...	...	...	...	...	624	3	10	623	3
French Phonetics	627	3	17	...	...	...	...	...	...	...	...
Modern French Syntax	628	3	22	...	...	...	...	...	...	628	3
History of the French Language	...	...	...	629	3	8	...	...	...	...	27
French Phonetics and Diction	...	...	...	632	5	0	632	5	30	...	...
France in 20th Century Literature	640	3	9	...	...	...	...	...	...	...	...
Minor Problems in French	701	3-5	0	701	3-5	1	701	3-5	0	701	3-5
Honors Course in French	705	3-10	0	705	3-10	0	706	3-10	1	...	...
Honors Course in French	...	...	...	...	...	...	...	...	...	707	3-10
Honors Course in French	...	...	...	...	...	...	...	...	...	...	2
Introduction to Old French	...	...	...	801	3	5	...	...	...	...	...
Introduction to Old French	802	3	5	...	...	...	802	3	5	...	...
Old Provençal	...	...	...	...	...	...	803	3	5	...	...
Old Provençal	...	...	...	...	...	...	...	...	...	804	3
Seminary in French Literature	811	3	5	811	3	2	...	...	...	...	...
Seminary in French Literature	...	...	...	...	...	...	812	3	5	...	...
Old French Literature	...	...	...	...	...	...	...	...	...	813	3
Seminary in French Literature	...	...	...	...	...	...	...	...	...	817	3
Research in French Language or Literature	950	...	11	950	...	2	950	...	3	950	...
ITALIAN											
Elementary Italian	...	...	...	401	5	23	...	...	...	...	...
Elementary Italian	...	...	...	...	...	...	402	5	19	...	...
Modern Italian Literature—1800-1850	...	...	...	...	...	...	...	...	...	601	5
Modern Italian Literature—1851-1900	...	...	...	...	...	...	...	...	...	602	5
Dante's Life and Works	...	...	...	...	...	...	611	3	*	...	...
Minor Problems in Italian	...	...	...	701	3-5	4	701	3-5	1	...	...
Research in Italian Language and Literature	...	...	...	950	...	1	950	...	1	...	...
SPANISH											
Elementary Spanish	401	5	11	401	5	192	401	5	77	401	5
Elementary Spanish	402	5	11	402	5	38	402	5	125	402	5
Intermediate Spanish	...	...	...	403	5	40	403	5	24	403	5
Intermediate Spanish	...	...	...	404	5	28	404	5	21	404	5
Elementary Spanish Composition	...	...	...	410	5	9	...	...	...	...	...
Introduction to Spanish Literature	...	...	...	413	5	25	413	5	16	413	5
Introduction to Spanish Literature	...	...	...	...	...	...	414	5	10	414	5
Advanced Composition and Conversation	...	...	...	605	3	11	...	...	...	...	...
Advanced Composition and Conversation	...	...	...	...	...	...	606	3	6	...	...
The Modern Spanish Novel	...	...	...	...	...	...	607	5	*	...	...
The Modern Spanish Novel	...	...	...	...	...	...	...	...	...	608	5
Romantic Drama and Poetry of the 19th Century	609	5	7
Modern Spanish Drama	*	610	5	7
Drama of the Golden Age	611	5

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Cervantes .....	...	...	...	...	...	...	614	5	*	...	...	...
Survey of Spanish Literature from Earliest Times to End of the 19th Century .....	...	...	...	...	...	...	615	5	6	...	...	...
Survey of Spanish Literature from Earliest Times to End of the 19th Century .....	...	...	...	...	...	...	...	...	...	616	5	17
Modern Spanish Syntax .....	...	...	...	617	3	7	...	...	...	...	...	...
Spanish Phonetics .....	...	...	...	...	...	...	620	5	5	...	...	...
The Spanish Drama of the 16th Century .....	...	...	...	...	...	...	...	...	...	626	5	*
Survey of Spanish-American Literature .....	...	...	...	...	...	...	...	...	...	630	5	...
Spain in 20th Century Literature	640	3	12	...	...	...	...	...	...	...	...	...
Spain in 20th Century Literature	641	3	7	...	...	...	...	...	...	...	...	...
Minor Problems in Spanish	701	5	1	701	3-5	0	701	3-5	1	701	3-5	0
Honors Course in Spanish	705	3-10	0	705	3-10	0	...	...	...	...	...	...
Honors Course in Spanish .....	...	...	...	...	...	...	706	3-10	0	...	...	...
Honors Course in Spanish .....	...	...	...	...	...	...	...	...	...	707	3-10	0
Old Spanish	805	3	2	805	3	0	...	...	...	...	...	...
Old Spanish	806	3	1	...	...	...	806	3	0	...	...	...
Seminary in Spanish Literature	815	3	3	815	3	2	815	3	0	815	3	1
Research in Spanish Language or Literature	950	...	0	950	...	2	950	...	1	950	...	2
RURAL ECONOMICS												
Agricultural Economics .....	...	...	...	501	5	19	...	...	...	501	5	52
Farm Management .....	...	...	...	502	5	15	...	...	...	502	5	29
Rural Life .....	...	...	...	...	...	...	505	5	23	...	...	...
Advanced Farm Organization .....	...	...	...	602	3	8	...	...	...	...	...	...
Cooperation in Agriculture .....	...	...	...	...	...	...	603	5	16	...	...	...
The Agricultural Industry .....	...	...	...	...	...	...	605	3	14	...	...	...
Price of Farm Products .....	...	...	...	...	...	...	...	...	...	612	3	15
Marketing Farm Products .....	...	...	...	613	5	16	...	...	...	613	5	37
Special Problems .....	...	...	...	701	3-15	4	701	3-15	8	701	3-15	19
Research in Rural Economics .....	...	...	...	950	...	2	950	...	7	950	...	0
SOCIAL ADMINISTRATION												
Social Treatment of Dependents .....	...	...	...	619	3	58	...	...	...	...	...	...
Social Treatment of the Child .....	...	...	...	...	...	...	620	3	67	...	...	...
Penology .....	...	...	...	626	3	14	...	...	...	...	...	...
Penology .....	...	...	...	...	...	...	627	3	6	...	...	...
Field Work in Social Statistics .....	...	...	...	638	5	40	...	...	...	638	5	33
Social Statistics .....	...	...	...	...	...	...	639	5	73	...	...	...
Case Recording .....	...	...	...	...	...	...	642	3	29	...	...	...

Social Organization and Administration of Recreation Facilities .....	...	...	...	...	...	...	...	...	646	4	8
The Organization and Direction of Group Activities .....	...	...	647	3	0	...	...	...	649	3	19
Camping: Its Organization and Administration .....	...	...	650	4	*	...	...	...	651	5	0
Boys' Work Organization .....	...	...	...	...	...	657	4	27	668	3	68
Girls' Work Organization .....	...	...	...	...	...	670	3	25	...	...	...
Welfare Problems in Rural Communities .....	...	...	...	...	...	...	...	...	...	...	...
Community Organization	670	3	12	...	...	...	...	...	...	...	...
Community Health Organization	671	3	8	...	...	...	...	...	...	...	...
Community Health Organization .....	...	...	...	...	...	...	...	...	...	...	...
Field Work .....	...	...	675	3-15	1	675	3-15	0	675	3-15	44
Social Case Work	695	3	70	695	3	38	695	3	36	...	...
Special Problems	700	1-4	8	700	1-4	1	700	1-4	3	700	1-4
Community Chest Movement .....	...	...	813	4	13	...	...	...	...	...	9
Contemporary Social Work .....	...	...	...	...	...	814	4	15	...	...	...
The Community	815	4	11	...	...	...	...	...	...	...	...
The Social Worker and Community Groups .....	...	...	835	3	13	...	...	...	...	...	...
National Social Work Agencies and Local Programs .....	...	...	...	...	...	836	3	0	...	...	...
Budgeting Community Social Work	827	3	11	...	...	...	...	...	...	...	...
Social Case Work .....	...	...	838	3	10	...	...	...	...	...	...
Probation and Parole .....	...	...	840	2	0	840	2	5	...	...	...
Public Welfare Administration	841	1-3	10	...	...	...	...	...	841	1-3	12
Methods of Sociological Investigation .....	...	...	845	4	15	...	...	...	...	...	...
Methods of Sociological Investigation .....	...	...	...	...	...	846	4	16	...	...	...
Research in Penology .....	...	...	847	1-4	2	...	...	...	...	...	...
Research in Penology .....	...	...	...	...	...	848	1-4	1	...	...	...
Research in Penology .....	...	...	...	...	...	...	...	...	849	1-4	1
Research in Social Administration .....	...	...	950	...	15	950	...	3	950	...	5
SOCIOLOGY											
Principles of Sociology	401	5	101	401	5	442	401	5	245	401	5
Principles of Sociology	402	5	72	402	5	161	402	5	309	402	5
Principles of Sociology .....	...	...	...	410	5	36	410	5	26	410	5
Introduction to Anthropology .....	...	...	...	...	...	...	501	5	30	...	...
The Sociology of Urban Life .....	...	...	...	...	...	...	...	...	505	5	57
The Family	601	4	7	601	4	41	...	...	601	4	63
The Immigrant .....	...	...	...	...	...	...	605	4	62	...	...
Race Relations Outside the United States .....	...	...	...	...	...	...	...	...	607	4	17
The Negro in American Life .....	...	...	608	4	27	...	...	...	...	...	...
The Standard of Living .....	...	...	...	...	...	...	...	...	610	3	81
Poverty .....	...	...	...	...	...	618	3	26	...	...	...
The Criminal .....	...	...	...	...	...	...	...	...	625	3	100
Leisure and Recreation	645	4	28	645	4	61	...	...	...	...	...
Rural Social Institutions .....	...	...	...	656	4	16	...	...	...	...	...
Social Order and Social Control .....	...	...	...	665	3	21	...	...	...	...	...
Social Evolution .....	...	...	...	...	...	...	666	3	0	...	...
Social Progress .....	...	...	...	...	...	...	...	...	667	3	15
Social Case Work .....	...	...	...	...	...	...	696	3	36	...	...
Special Problems .....	...	...	700	1-4	2	700	1-4	4	700	1-4	7
History of Sociological Thought .....	...	...	801	2	5	...	...	...	...	...	...
History of Sociological Thought .....	...	...	...	...	...	802	2	0	...	...	...

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
History of Sociological Thought.....	803	2	5
American Sociological Theory.....	805	2	2	...	...	...	...	...	...
American Sociological Theory.....	806	2	6	...	...	...
American Sociological Theory.....	807	2	5
Nationality and Nationalism.....	827	4	...	...	...	...	...	...	...
Social Classes	828	4	*	...	...	...
Social Changes through Crisis.....	829	4	*
Reconstruction of Western Culture.....	857	4	0	...	...	...
Seminary in Sociology.....	860	4	2	860	4	0	860	4	4	860	4	0
Contemporary Sociological Literature.....	900	1-4	5	900	1-4	0	900	1-4	0
Research in Sociology.....	950	...	1	950	...	3	950	...	2
SURGERY												
Surgical Anatomy	600	2	88	...	...	...
Minor Surgery	601	3	98
General Surgery	602	2	89	603	2	88	604	2	88
Gynecology	605	2	88
Orthopedic Surgery	606	1	88
Conference Clinics	607	1	86	608	1	86	609	1	86
Operative Surgery	610	2	86	...	...	...	...	...	...
Genito-Urinary Diseases	618	2	88	...	...	...
Endocrinology of the Female Organs.....	620	1	46
VETERINARY MEDICINE												
Anatomy of the Horse.....	416	7	75	...	...	...	...	...	...
Anatomy of the Horse.....	417	7	68	...	...	...
Topographic Anatomy of the Domestic Animals	418	7	66
General Pathology	421	5	17	...	...	...
Special Pathology	423	4	53	423	4	20
Parasitology	428	3	70	...	...	...	...	...	...
Parasitology	429	3	73	...	...	...
Histology of the Domesticated Animals.....	436	3	74	...	...	...	...	...	...
Histology of the Domesticated Animals.....	437	3	68	...	...	...
Embryology of the Domesticated Animals.....	438	3	58
Agricultural Veterinary Medicine.....	451	3	12	...	...	...	...	...	...
Agricultural Veterinary Medicine.....	452	3	12	...	...	...
Agricultural Veterinary Medicine.....	453	3	12
Materia Medica and Therapeutics.....	460	3	22	...	...	...	...	...	...
Materia Medica and Therapeutics.....	461	3	20	...	...	...
Materia Medica and Therapeutics.....	462	3	20

THE WORK OF INSTRUCTORS—1934-1935 (Cont'd.)

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
General Entomology	550	5	56	...	...	...
Economic Entomology	551	5	8	551	5	36	...	...	...	551	5	33
Advanced Genetics	601	3	12	601	3	11	...	...	...
Animal Behavior	605	3	5	...	...	...	...	...	...	...	...	...
Animal Behavior	606	3	0	...	...	...
Animal Microtechnic	609	3-5	13	...	...	...	...	...	...
Cellular Biology, I.	617	3-5	13	...	...	...
Cellular Biology, II.	618	3-5	28
Advanced Zoology of the Vertebrates.....	620	5	24
Advanced Zoology of Invertebrates—I
The Protozoa	625	5	18	...	...	...	...	...	...
Advanced Zoology of Invertebrates, II.	626	5	15	...	...	...
Advanced Zoology of Invertebrates, III.	627	5	9
Advanced Entomology	651	5	7	...	...	...	...	...	...
Advanced Entomology	652	5	6	...	...	...
Insect Control	653	5	5	...	...	...	...	...	...
Insect Control	654	5	7
Medical and Veterinary Entomology.....	655	5	*	...	...	...
Entomological Literature and Principles of
Taxonomy	660	5	8	...	...	...
Special Problems	700	3-5	19	701	3-5	18	701	3-5	40	701	3-5	34
Seminary in Entomology.....	801	1	29	...	...	...	...	...	...
Seminary in Entomology.....	802	1	25	...	...	...
Seminary in Zoology and Entomology.....	803	1	21
Invertebrate Zoology	805	5	3	...	...	...	...	...	...
Invertebrate Zoology	806	5	3	...	...	...
Invertebrate Zoology	807	5	2
Biological Control of Insect Pests.....	814	5	6	...	...	...	...	...	...
Biological Control of Insect Pests.....	815	5	6	...	...	...
Research Methods: Living Insects.....	816	5	4	816	5	0
Morphology and Development of Insects.....	817	5	4	...	...	...	...	...	...
Research in Zoology and Entomology.....	950	...	9	950	...	15	950	...	25	950	...	19

* SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY

[illegible]

APPENDIX IV

APPENDIX. IV. (Concluded)

APPENDIX V

DEGREES AND CERTIFICATES GRANTED DURING YEAR 1934-1935

AUGUST CONVOCATION

GRADUATE SCHOOL

DEAN: WILLIAM McPHERSON

DOCTOR OF PHILOSOPHY

John Stanley Valentine Allen, B.E. Physics, M.Sc.....	Painesville
Kenneth Hammond Baker, B.A., M.A. (Ohio Wesleyan University).....	Cleveland
William Morton Barrows, Jr., B.A., M.Sc.....	Columbus
Henry Alver Bess, B.S. (Alabama Polytechnic Institute); M.S. (University of Florida).....	Columbus
Jacques Robert Breitenbucher, B.A. (University of Akron); M.A. (University of Wisconsin)	Oxford
Foster Lindsey Brooks, A.B. (Mount Union College).....	Sherrodsville
Clyde Oliver Davis, A.B. (Hiram College); M.Sc.....	Ravenna
Darwin Alexander Hindman, A.B. (Oberlin College); M.S. (University of Illinois)....	Columbus
James Lindsay LaPoe, Ph.B. (Waynesburg College); M.A. (University of Pittsburgh)	Plainfield, N. J.
Marjorie Leffler, A.B. (Miami University); M.A.....	Kyle
Louis Levine, B.A., M.A.....	Columbus
Fred Albert Lewis, A.B., A.M. (University of Alabama).....	Columbus
James Kenneth Little, A.B. (Sterling College); M.S. (Kansas State Teachers College of Emporia)	Sterling, Kan.
Hoyt H. London, B.S. (North Texas State Teachers College); A.M. (University of Missouri)	Denton, Tex.
Earl Albert Long, A.B. (Catawba College); M.Sc.....	Charlotte, N. C.
Phoebe Arnold Paine, B.A., B.Sc. in Edu., M.Sc.....	Columbus
Robert Fross Rinehart, A.B. (Wittenberg College); M.A.....	Springfield
Wilbur Judson Robinson, B.A. (Ohio Wesleyan University).....	Depauville, N. Y.
Elmer Baker Royer, B.A. (Manchester College); M.A.....	Hollansburg
William Sherman Savage, A.B. (Howard University); M.A. (University of Oregon)	Jefferson City, Mo.
Robert Mumford Smock, B.Sc. in Agr., M.Sc.....	Erie, Pa.
Ralph Melvin Stogdill, B.A., M.A.....	Columbus
Jacob Swart, B.S., LL.B. (Ohio Northern University); A.M. (Harvard University)	Colorado Springs, Colo.
Clarence Egbert Taft, A.B. (Michigan State Normal College); M.S. (University of Oklahoma)	Romeo, Mich.
Merrick Kershaw Walsh, B.A., M.A. (University of South Carolina).....	Columbia, S. C.
Herbert Sherwood Warwick, II, A.B. (Princeton University); M.A.....	Youngstown
Alfred Nelson Watson, B.A., M.Sc.....	Columbus
John Everett Wenrick, B.A., M.A.....	Bradford
Eben Moreau West, B.A., M.S. (Louisiana State University).....	Baton Rouge, La.
Abram Gerhard Wiens, A.B. (Bluffton College); M.A.....	Lindenau, Russia
Paul Kenneth Winter, B.S., B.A. (Muskingum College); M.A.....	Columbus
Henry Johnson Wolthorn, A.B. (Hope College); M.Sc.....	Grand Rapids, Mich.

(Thirty-two candidates)

MASTER OF ARTS

Agnes Louise Ballantyne, B.A. (Muskingum College).....	Xenia
Frank Edward Ballenger, B.A. (Muskingum College).....	Sabina
Vernon Wellington Barnes, B.A. (Muskingum College).....	Jackson
Margaret Anna Barton, B.A. (Ohio Wesleyan University).....	Sunbury

Pearl Conrad Bechtel, B.S. in Edu. (Miami University)	West Liberty
Miriam Benham, B.Sc. in Edu.	Tippecanoe City
William Frederick Bernlohr, A.B. (Capital University)	Columbus
Margaret Mary Finnegan Betts, B.A. (College of Saint Teresa)	Columbus
Ernest Gordon Boster, A.B. (Rio Grande College)	Beloit
Herbert Leland Bowman, B.S. (Denison University)	Willard
Jennie Bowman, B.S. in Edu. (Ohio Northern University)	Columbus Grove
Frew Cecil Boyd, B.A. (Ohio Wesleyan University)	Newark
James Anglin Bright, B.S. (Otterbein College)	Vanlue
Harvey Ovolo Burger, B.Sc. in Edu.	Columbus
Lyal Wilbur Burkholder, A.B. (Bluffton College)	Ottawa
William James Butler, B.Sc. in Edu.	Columbus
Charles Arthur Campbell, B.S. in Edu. (Kent State College)	Belmont
Kathryn Lucile Carr, B.Sc. in Edu.	Lake View
Irvin Lloyd Conrad, A.B. (Bluffton College)	Findlay
George Herbert Cooke, B.Sc. in Edu.	Logan
Raymond Earl Cote, B.S. in Edu. (Massachusetts School of Art)	Alton
Charles Boyd Crouch, B.A. (Muskingum College)	New Haven
Beryl Minor Cunningham, B.S. (rBadley Polytechnic Institute)	Watseka, Ill.
Samuel Donald Cunningham, B.S. (Mount Union College)	Steubenville
John Spurgeon Davis, A.B. (Rio Grande College)	Thurman
Harold Defenbaugh, B.Sc. in Edu.	West Liberty
Helen Margaret Derrer, B.S. in Edu. (Ohio University)	Columbus
Lester Leland Dickey, B.A. (Ohio Wesleyan University)	Dresden
Marjorie Miller Dieterich, B.A. (Ohio Wesleyan University)	Columbus
Pearl Emory Diller, A.B. (Bluffton College)	Tiffin
Mary-Theresa Veronica Dillon, B.Sc. in Edu.	Columbus
Harley McKinley Dixon, B.Sc. in Agr.	Bellevue
Calvin D. Early, A.B. (Manchester College)	Gomer
Lawrence Carroll Edelin, B.S. in Edu. (Howard University)	Washington, D. C.
Homer Philip Eichhorn, A.B. (Heidelberg University)	Galion
Jeanette Elder, B.A.	Columbus
Ernest George Emmert, B.S. (Capital University)	Marysville
Ruth Lenore Enders, A.B. (Defiance College)	Defiance
Martin Walker Essex, B.Sc. in Edu.	Ray
Emily Edna Farnham, B.S. in Edu. (Kent State College)	Kent
Daniel Chester Fast, B.Sc. in Edu.	North Baltimore
Evangeline Houghtaling Feick, A.B. (Lake Erie College)	Sandusky
Wilma Glover Felger, A.B. (Defiance College)	Van Wert
Donald Elias Ferguson, A.B. (Marietta College)	McKeesport, Pa.
Lelah Ferneau, A.B. (Western College for Women)	Columbus
Lloyd Burson Fidler, B.Sc. in Agr.	Canal Winchester
Ollie Edgar Fink, B.A. (Muskingum College)	Zanesville
Ruth Ida Fiske, B.S. in Edu. (Ohio University)	Athens
Willard Monroe Floyd, B.S. in Edu. (Ohio Northern University)	Delphos
Samuel Lehmann Flueckiger, A.B. (Bluffton College); B.M. (University of Michigan)	Kewanee, Ill.
Howard Vincent Foster, A.B. (Simpson College)	Sidney, Ia.
Edith Leola Frederick, B.Sc. in Edu.	Columbus
Delmar Floyd Gahn, B.S. in Edu. (Ohio University)	Pemberton
Leon Milton Garrette, B.A.	Shadyside
Herbert Allen Gates, B.A. (The College of Wooster); B.Sc. in Edu.	Cleveland
Clarence Alfred Gehrig, B.S. in Edu. (Kent State College)	Millersburg
Alice May Gerding, B.Sc. in Edu., B.A.	Toledo
George Edwin Gibbs, B.S. in Edu. (Wilberforce University)	Wilberforce
Eugene Spurgeon Glasgo, B.S. (Denison University)	Frazesburg
Burvil Holmes Glenn, B.Sc. in Edu.	Piqua
Orin Benton Graff, B.S. in Edu. (Ohio Northern University)	Haverhill
Russell Francis Grauer, B.Sc. in Edu.	Niagara Falls, N. Y.
Virgil Otis Green, B.Sc. in Edu.	Clarksburg
Byron Reese Griffith, B.A. (Ohio Wesleyan University)	Delaware
Hilmar Gerhart Grimm, A.B. (Capital University)	Columbus
Joshua Frank Grimm, A.B. (Wittenberg College)	New Concord

Irene Lydia Hansen, B.Sc. in Elem. Edu. (Toledo University)	Toledo
Paul Chasiler Harger, B.A. (Ohio Wesleyan University)	Delaware
George Absalom Hartman, A.B. (Ohio University)	Sugar Grove
Marguerite Newell Hawver, A.B. (Adrian College)	Huntsville
Charles W. Hayman, A.B. (Otterbein College)	Westerville
Lois Bernadine Heinlein, A.B. (Heidelberg College)	Columbus
Carl Porter Henderson, B.S. in Edu. (Kent State College)	Irondale
Glen Boyd Hiatt, B.Sc. in Edu.	Defiance
Jessie Lydia Hickok, B.Sc. in Edu.	Alliance
William Jennings Himes, B.Sc. in Agr.	Creston
Kenneth B. Hoover, B.A. (Muskingum College)	Chesterville
Huber Christian Hurst, A.B., LL.B. (University of Florida)	Bellefontaine
Wesley Edgar Jenkins, B.S. in Edu. (Ohio University)	Columbus
Horace Glen Johnson, B.S. in Edu. (Bowling Green State College)	Kunkle
Walter Howard Juniper, B.A., B.Sc. in Edu.	Columbus
Sara Elizabeth Kasler, B.Sc. in Edu.	Crooksville
Mildred Ruth Keel, B.Sc. in Edu.	Bluffton
Mary Catherine Keller, B.Sc. in Edu.	Columbus
Everett John Kircher, B.A. (University of Wisconsin)	Appleton, Wis.
Margaret Virginia Knight, B.A. (Ohio Wesleyan University)	Delaware
Frank John Krebs, A.B. (Mount Union College)	Malvern
Crystal Maxine Krisher, B.Sc. in Edu.	Newton Falls
Nathan Evans Langford, A.B. (Talladega College)	Dayton
Russell Audley Lantz, A.B. (Bluffton College)	Bluffton
Henry Robert LeBlanc, B.A. (Muskingum College)	Columbus
James Arthur Lemon, A.B. (Cedarville College)	Morning Sun
*William Levine	Cleveland
Bert M. Lindemuth, A.B. (Indiana University)	Defiance
Orville Joseph Litwiller, A.B. (Bluffton College)	Buda, Ill.
Helen Hutchings Logan, A.B. (Colorado State Teachers College)	Columbus
Margaret Rachel Long, A.B. (Defiance College)	Centerburg
John Robert Ludington, B.S. in Edu. (Ball State Teachers College)	Muncie, Ind.
* Two degrees.	
Clarke Ellsworth Lynch, A.B. (Marietta College)	New Matamoras
Myron Allison Mann, B.Sc. in Edu.	Columbus
Samuel Earle Martin, A.B. (Heidelberg University)	Bellevue
Roy John Matheny, A.B. (Ohio Northern University)	East Liberty
Harold Cromley McCord, B.S. in Edu. (Ohio University)	Worthington
Merrill Clyde McEwen, B.S. (Columbia University)	Bowling Green
Henry Carroll McKinley, A.B. (Wittenberg College)	Bellefontaine
Kathryn Christine Meck, B.A. (Ohio Wesleyan University)	Bucyrus
Laura Ann Mick, A.B. (Oberlin College)	Bryan
Ralph Henry Mikesell, A.B. (Ohio Northern University)	New Paris
Sarah Margaret Moore, B.Sc. in Edu.	Columbus
Harold Leroy Naragon, A.B. (Heidelberg College)	Kenton
Claude Witten Nash, B.A. (Emory and Henry College)	Ironton
Mary Christelle Nelson, B.Sc. in Edu. (University of Nebraska)	McIntosh, Ga.
Egbert William Nieman, B.A.	Woodville
Perry Nicholas Noll, B.S. in Edu. (Kent State College)	Berne
Frances Lucile O'Harra, B.A. (Ohio Wesleyan University)	Lockbourne
Paul Orr, A.B. (Cedarville College)	Cedarville
Charles Merville Patterson, B.A. (James Millikin University)	Bedford
Martin Edward Peck, B.Sc. in Edu.	Columbus
Harper Clifton Pendry, A.B. (Swarthmore College)	Athens
Raymond Arthur Penn, A.B. (Marietta College)	Brownsville
Ruth Alice Perkins, B.Sc. in Edu.	Columbus
William Dennis Perkinson, B.S. in Edu. (Ohio Northern University)	Portsmouth
Mary Roseamonde Porter, B.Sc. in Edu.	Nashport
Newman Minnich Powell, A.B. (Ohio University)	London
Franklin Eugene Puderbaugh, A.B. (Otterbein College)	Dayton
Joseph Sanchez Ramos, B.A.	Columbus
John Alvin Ramseyer, A.B. (Bluffton College)	Genoa
John Paul Ray, B.S. in Edu. (Ohio Northern University)	Bellbrook

Harold J. Rex, B.S. (Kent State College)	Columbus
Murhl Thomas Ricketts, B.S. in Edu. (Bowling Green State College)	Tontogany
Blanche Robinson, B.S. in Edu. (Ohio University)	Gallipolis
John Wilbur Robison, B.A. (Muskingum College)	Monroe
Donald B. Roeder, A.B. (Manchester College)	Harrod
Stella Mae Rogers, B.Sc. in Edu.	Columbus
Glenn Gilman Rohleder, B.Sc. in Edu.	Mansfield
Ernest Edward Root, B.S. (Baldwin-Wallace College)	Brecksville
Harold Hudson Root, B.Sc. in Edu. (Ohio University)	Portsmouth
Verona Fisher Rothenbush, B.A. (Ohio Wesleyan University)	Columbus
Otto Olin Royer, A.B. (Mount Union College)	Dayton
Gerald Victor Rupe, A.B. (Rio Grande College)	Middleport
Edward Allen Ryan, A.B. (Bethany College)	Lowell
Dwight Stanley Salzman, A.B. (Bluffton College)	Greenville
Charles Schmukler, B.Sc. in Edu.	Cleveland
Mildred Ann Schulte, A.B. in Edu. (Valparaiso University)	Cleveland
Vera Geraldine Schwab, A.B. (Findlay College)	Findlay
Earle Rolland Seidner, A.B. (Denison University)	Wauseon
Walter Edward Shade, B.A., B.Sc. in Edu.	West Carrollton
Robert Dewar Shauck, A.B. (Wittenberg College)	Nashville
Jacob Shwartz, B.A.	Struthers
John Willard Smith, B.Sc. (Wilmington College)	Wheeling, W. Va.
Hartley Deal Snyder, B.Sc. in Edu.	Galion
Herman Gear Spencer, A.B. (Denison University)	Granville
Hazel Spyker, B.S. in Edu. (Miami University)	Spencerville
Douglas Robert Stanfield, B.Sc. in Edu.	Edison
Leighton Paul Starr, B.S. (Mount Union College)	Malvern
Velma Jean Stephenson, B.A. (Berea College)	Piqua
Harry Mayes Strothers, B.Sc. in Edu.	Rocky River
Nelson Leslie Sutherland, B.A. (Muskingum College)	Hanover
Carl William Tirey, B.A.	Columbus
Elizabeth Adell Valentine, A.B. (Denison University)	Granville
Joseph Paul Vance, B.Sc. in Edu.	Columbus
Ruth Selma Vendig, A.B. (Antioch College)	Yellow Springs
Rolla Delance Webster, A.B. (Heidelberg College)	Old Fort
Grace Parker Weiss, B.A.	Columbus
Arthur Dennis West, A.B. (Ohio University)	Eldorado
Peter A. Wiebe, A.B. (Bluffton College)	Willard
James Louis Williams, B.S. (The College of Wooster)	Canfield
Owen James Work, B.S. in Edu. (Ashland College)	Wadsworth
Robert Dean Wright, A.B. (Miami University)	Alliance
Sarah Adeline Zimmerman, A.B. (Western College for Women)	Dayton
Howard Adolph Zollinger, B.Sc. in Agr.	Thornville

(One hundred and seventy-one Candidates)

MASTER OF ARTS IN SOCIAL ADMINISTRATION

Robert William DePuy, A.B. (Denison University)	Dayton
Ruth Eleanor Gahegan, B.S. in Edu. (St. Mary's of the Springs College)	Columbus
Doris Lucille Gates, B.A. (Ohio Wesleyan University)	Canton
Helen Chappelle Hoag, B.A. in Edu. (University of Washington)	Mt. Vernon
William Dietrich Schmidt, A.B. (Capital University)	Columbus
Ruth Clutts Wilson, A.B. (University of Cincinnati)	Wellston

(Six candidates)

MASTER OF BUSINESS ADMINISTRATION

Marcia Celestine Peters, A.B. in Com. (Ohio University)	Youngstown
Howard Hastings Sands, A.B. in Com. (Ohio University)	Logan

(Two candidates)

MASTER OF SCIENCE

Robert Leo Albright, B.S. (Pennsylvania State College)	Prospect
Alston Gordon Bowers, A.B. (Miami University)	Lyndon
Arthur Laurice Bryan, B.E. Physics	Columbus
Florence Ethel Carpenter, A.B. (Marietta College)	Marietta
Frank Bradford Cooper, B.S. (Columbia University)	Trudeau, N. Y.
Arthur Welling Deem, D.V.M. (Cincinnati Veterinary College)	Delaware
Robert Leslie Fletcher, B.Sc. in Agr.	Columbus
Harold Curtis Freshwater, B.Sc. in Edu.	Lorain
Ernest Roger Gibson, A.B. (Cedarville College)	Rossford
Hannibal Hampton Hubble, B.A.	Columbus
Ruth Cox Jason, B.S. in Edu. (Lincoln University)	Jefferson City, Mo.
Verlin Walter Krill, B.M.E.	Defiance
Frank Vivian Lee, B.S. (University of Wisconsin)	Merrimack, Wis.
Mary Belle Linnell, B.A.	Lima
Lawrence Lewis Little, B.S. in Agr. (New Mexico College of Agriculture and Mechanic Arts)	Portales, N. M.
Leonidas Franklin Livisay, B.A.	Ironton
Ruloff John May, B.S. (University of Illinois)	LaMoille, Ill.
Perry William Meridith, B.S. in Agr. (University of Nebraska)	St. Edwards, Neb.
Donald Seefred Rader, B.Sc. in Edu.	Coshocton
Wayne Kenneth Rife, B.Sc. in H.E.	Columbus
Arthur Henry Simons, A.B. (West Virginia Wesleyan College)	Detroit, Mich.
Charles Armstrong Trimble, A.B. (Marietta College)	Marietta
Vaughn Jacob Ullman, B.S. (Ohio University)	Harriettsville
John William Unger, B.S. in Edu. (West Virginia University)	Wallace, W. Va.
Royal Weller, B.S. in E.E. (Massachusetts Institute of Technology)	Rochester, N. Y.
Marion Wills, B.Sc. in Edu.	Waverly
John Nicholas Wolfe, B.A.	Columbus

(Twenty-seven candidates)

CANDIDATES FOR TWO DEGREES

William Levine	Cleveland
Bachelor of Arts	
Master of Arts	
Elmer Albert Taylor	Malta
Bachelor of Arts	
Bachelor of Science in Education	

(Two candidates)

COLLEGE OF AGRICULTURE

Dean: JOHN F. CUNNINGHAM

BACHELOR OF SCIENCE
IN AGRICULTURE

David Branson Bailey	Tacoma
Earl William McMunn	Lore City
Francis Lambert Miller	Cleveland
Wilbur Robert Tullis	Blanchaster

(Four candidates)

BACHELOR OF SCIENCE
IN HOME ECONOMICS

Elizabeth Kathryn Brown	Columbus
Mary Alice Duff	New Concord
Martha Ann Evans	Centerburg

Irma Lucille Hazlett.....	Columbus
Dorothea Eleanor Kurtz.....	Bucyrus
Alma Gladys McDaniel.....	Marion
Mary Inetha Schleckman.....	Columbus
Marjorie Cott Smith.....	Columbus
Edith May White.....	Westerville

(Nine candidates)

COLLEGE OF ARTS AND SCIENCES

Acting Dean: W. S. HENDRIX

BACHELOR OF ARTS—WITH HONORS

Robert Edwin Ewing (summa cum laude and with Distinction in History).....	Columbus
Elizabeth Alice Garman (cum laude).....	Cleveland
Lois Evelyn Hostetler, B.Sc. in Edu. (cum laude).....	Navarro
*William Levine (cum laude and with High Distinction in Chemistry).....	Cleveland

(Four candidates)

BACHELOR OF ARTS

Alice Bandy.....	Columbus
Austin Allen Coulson.....	Malta
Ruth Critzer.....	Columbus
Bernard Vosbury Davis.....	Columbus
Mary Elizabeth Eitel.....	Columbus
Roland DeWolfe Elderkin.....	Milan
Jack Faber.....	Freeport, N. Y.
Ivan Frank Ferneau.....	Springfield
Harold Louis Fillmore.....	Columbus
Richard Markee Fordyce.....	Cambridge
Edith Letts Forry.....	Mt. Vernon
Frederick Francis Franklin.....	Unlontown
Merrill Clarence Gilfillan.....	Castine
Samuel Jacob Gordon.....	Holyoke, Mass.
Violet Belle Hanes.....	Columbus
Harold Clyde Hess.....	Decatur, Ill.
Phyllis Kathleen Hogan.....	Columbus
John William Hollington.....	Findlay
Virginia Florence Hultquist.....	Alcoa, Tenn.
Frances Pauline Jeffrey.....	Steubenville
Jean Johnson.....	Columbus
John Orrin Kramer.....	Columbus
Ivan James Kusse.....	Olmsted Falls
Miriam Lois Latta.....	Granville
John William Matson.....	Uhrichsville
Gayl Caldwell Metzger.....	Bucyrus
Kathryn Persinger.....	Washington C. H.
Ann Postle.....	Columbus
Sanford Press.....	Steubenville
Warren Wadsworth Richmond.....	Mentor
Dolores Claretta Schaerges.....	Cleveland
Leonora Assunta Signoretti.....	Cleveland
Thelma Margaret Simms.....	Columbus
Eleanor Rose Smith.....	Columbus
*Elmer Albert Taylor.....	Malta
Joseph Edward Tylicki.....	Cleveland
Nathan Raymond Wilcove.....	Rochester, N. Y.

(Thirty-seven candidates)

* Two degrees.

COLLEGE OF COMMERCE AND ADMINISTRATION

Dean: WALTER C. WEIDLER

BACHELOR OF SCIENCE
IN BUSINESS ADMINISTRATION

Phillips George Auten.....	North Lima
Maurice Bloom	Columbus
Robert Linson Blue.....	Lima
Leo Brown	Unionville
Alvin Joseph Cipra.....	Cleveland
Allan Huffman Clark	Columbus
Jack Merle Copeland.....	Mansfield
Samuel Drakulich	Salem
James Leonard Fisk.....	Elyria
Alexander Gaal, Jr.....	Columbus
Leon Charles Hodgkins.....	Bedford
Hobert Henry Howarth.....	Columbus
James Benjamin Lightburn.....	Crestline
Florence Helen Lyford.....	Columbus
Clarabelle Eva Magrew.....	Columbus
Doyle Kramer Montgomery.....	Fredericktown
Charles Albert Phillips.....	Washington, Pa.
Belden Davis Scherer.....	Cleveland
Sara Seff	Columbus
Genevieve Elizabeth Sloane	Galion
Walter Henry Stapf.....	Bellevue
Frank John Starkey.....	Yellow Springs
Earl Richard Stauffer	Orrville
Dustin Smith Swisher	Columbus
Paul Raymond Wright.....	Lakewood

(Twenty-five candidates)

BACHELOR OF SCIENCE
IN JOURNALISM

John Edward Brown.....	Brooklyn, N. Y.
Alice Jane Garwood	Columbus
Emerson Francis Hurley.....	Williamsport
Edward Francis Murphy	Lima

(Four candidates)

BACHELOR OF SCIENCE
IN SOCIAL ADMINISTRATION

Verna Faye Leonard.....	Columbus
Leona Cecelia Mann	Columbus
Alice Murielle Stanard.....	Cleveland
Harold Edwin Wetzel	Dayton

(Four candidates)

COLLEGE OF DENTISTRY

Acting Dean: HARVEY V. COTTRELL

DOCTOR OF DENTAL SURGERY

Herbert Deutchman	Akron
Charles Randolph Taylor	Mt. Healthy
William Walter Waxman.....	Cleveland

(Three candidates)

COLLEGE OF EDUCATION

Acting Dean: RAYMOND D. BENNETT

BACHELOR OF SCIENCE
IN EDUCATION—WITH HONORS

Doris Lilian Ambrose (with Distinction).....	Springfield
Alice Harriet Good (with Distinction).....	Columbus
(Two candidates)	

BACHELOR OF SCIENCE
IN EDUCATION

Catherine Ina Alban.....	Oak Hill
Esther Elizabeth Alker.....	Steubenville
Ralph Lee Arick.....	Columbus
Ethel Marie Asher.....	New Holland
James McClure Aukerman.....	Galion
Richard Spencer Biddle.....	Columbus
Mariane Leslie Bougher.....	Steubenville
Freda Hill Boughton.....	Columbus
John William Boyd.....	East Liverpool
Mary Kate Bradfute.....	Columbus
Louise Congleton Broadus.....	Irvine, Ky.
Joanna Fox Brusman.....	Vandalia
Madeline Louise Buescher.....	Clyde
Irma Marie Carr, B.A.....	Mt. Victory
Theodore Karr Compton.....	Coshocton
Ione Frances Connor.....	Columbus
Loretta Marie Cooper.....	Portsmouth
Ethel May Cox.....	Columbus
Frank Pierce Darby.....	Columbus
Juanita Drusila Davis.....	Columbus
Wilbur James Davis.....	Delta
Charlotte Elizabeth Denison, B.A. (Ohio Wesleyan University).....	Delaware
Charles Lawrence Dewine.....	Cleveland
Alice Carol Diefenthaler.....	Curtice
Delite Eva Ebersole.....	Findlay
Delphine Eichel.....	Logan
Lillie Merle Fidler.....	Canal Winchester
Ernest Carl Ghrist.....	Gallipolis
Margaret Helen Gotter.....	Louisville
Harvey Willard Graham.....	Vincent
Frances Stimmel Haggard.....	Columbus
Pauline Priscilla Hall.....	Xenia
Glenna Magdalena Harlamert.....	Kettlersville
Eli Albert Hauenstein.....	Lima
Dale Haven.....	Columbus
Julia Missouri Hosler.....	Williamsport
Robert Moore Hughes.....	Columbus
Kenneth Harvey Irwin.....	Nutwood
Gail Virginia Isaly.....	Clarington
Martha Ellen Johnson.....	Columbus
Florence Gilchrist Jones.....	Shawnee
James Willis Karns.....	New Carlisle
Leonard John Kline.....	Lima
Dorothy Irvine Lambert, B.A. (Wells College).....	Columbus
Dorothy Everett Larned.....	Wilkinsburg, Pa.
Kenneth Irwin Lea.....	Ashley
Orrie David Lehman.....	Upper Sandusky

Helen Marie Litchfield.....	Montpelier
Ruth Adele Love.....	Xenia
Ruth Irene Luke.....	Metamora
Evelyn Virginia Lukens.....	Springfield
Helen Louise Lyons.....	Columbus
Loretta Elizabeth MacDonald.....	Columbus
Julia Helen McMillan.....	Mt. Pleasant
Margaret Jane McNamara.....	Columbus
Mildred Elizabeth Meeker.....	Sunbury
John Amos Miller.....	Jewett
Roberta Evabel Mills.....	Columbus
Ruth Eloise Mirise.....	Columbus
Emmett Joseph Neff.....	Bucyrus
Victor Forrest Patterson.....	Mt. Gilead
Ira Clifford Paul, B.A. (Mount Morris College).....	Lima
Ruth Wadsworth Poindexter.....	Cleveland
Lois Virginia Rankin.....	Shadyside
Alice Jane Reid.....	Columbus
Genevieve Beth Rothermund.....	Columbus
Preston Parish Scott.....	Dayton
Edwin Allen Shoemaker.....	Columbus
Elizabeth May Shoemaker.....	Akron
Esther Mary Shopshire.....	Waverly
James Roberts Simpson.....	Columbus
Edythe Helen Sims.....	Lakewood
Minta Anne Hall Sisler.....	Pedro
Thomas McVay Skinner.....	Wilkinsburg, Pa.
Esther Pauline Smith.....	Tiro
Oscar Lee Snyder.....	Martinsburg, W. Va.
Ted Bernard Southerland.....	Columbus
Abe Bernard Stein.....	Newark, N. J.
George Hale Sting.....	Columbus
Gladys Irene Strain.....	Dennison
Donald Theodore Taylor, B.A. (Muskingum College).....	Zanesville
*Elmer Albert Taylor.....	Malta
Thelma Louise Thomas, B.Music (Ohio University).....	Crooksville
Jeanne Evelyn Tipton.....	Washington, C. H.
Lucy Mae Turner.....	Zanesville
Harry Aloysius Von Kaenel, B.A. (University of Dayton).....	Marion
Elizabeth Harriet Watt.....	Worthington
Harold Max Wiggins.....	Toledo
Lawrence Arthur Wilkens.....	Norwood
Della Straley Wixom.....	Struthers
Hazel Marie Wood.....	East Liverpool
Thomas John Wood, B.A. (Williams College).....	Dayton
Audrey Kathleen Wright.....	Mt. Vernon

(Ninety-three candidates)

COLLEGE OF ENGINEERING

Acting Dean: WILLIAM D. TURNBULL

BACHELOR OF CHEMICAL ENGINEERING

John George Damous.....	Charleston, W. Va.
Clarence Norman Fisher.....	Clarksville
Humbert Christopher Lancia.....	Columbus
William James Lawless.....	Columbus
Theodore Marks.....	Cleveland
Stanley Wilson Snyder.....	Barberton

(Six candidates)

* Two degrees.

ANNUAL REPORT

BACHELOR OF ELECTRICAL ENGINEERING

Gerald Ellis Branch.....	Akron
Robert Augustus Young	Springfield
(Two candidates)	

BACHELOR OF MECHANICAL ENGINEERING

Charles Newton Hay.....	Sandusky
Robert Horace Todd.....	Delaware
(Two candidates)	

COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

BACHELOR OF SCIENCE
IN PHARMACY

Ned Boyer Miller	Dayton
(One candidate)	

COLLEGE OF MEDICINE

Dean: JOHN H. J. UPHAM

PROFESSIONAL CERTIFICATES

CERTIFICATE OF GRADUATE NURSE

Margaret Cathryn Benbow	Dayton
Anna Margaret Buckmelter	Mingo Junction
Alice Lillian Crist	Columbus
Stella Theresa Czuba.....	Lorain
Ruth Evelyn Dodd.....	Columbus
Sara Alice Hatcher.....	Mingo Junction
Lucile Julia Jepson.....	New Waterford
Catherine Mabel Jones.....	Convoy
Ruth Muriel Price	Findlay
Mary Maxine Stoll.....	Defiance
Vesta Anne Turner	Lorain
Jessie May Ullman.....	Waterford
(Twelve candidates)	

DECEMBER CONVOCATION

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

DOCTOR OF PHILOSOPHY

Elbert Halvor Ahltrom, A.B. (Marietta College); M.A.....	Columbus
Arnold A. Alberts, B.A. (University of South Dakota), M.S.....	Columbus
Camille Joseph Botte, B.Sc. in Edu., M.A.....	Toledo
Edwin Sharp Burdell, M.A.....	Columbus
Wellington Jaffray Cameron, B.A.Sc. (University of Toronto); M.A.....	Columbus
Kenneth Dwight Detling, A.B. (Miami University); M.A.....	Ansonia

James Kenneth Farrell, B.A., M.Sc.....	Fremont
Ralph Orlando Freeland, B.S. in Edu. (Eastern Illinois State Teachers College) ; M.Sc..	Columbus
Marion Etta Griffith, B.Sc. in H.E. ; M.S. (Iowa State College of Agriculture and Mechanical Arts)	Columbus
Dorothy Marguerite Johnson, B.S. (Iowa State College of Agriculture and Mechanic Arts) ; M.Sc. (University of Nebraska).....	Omaha, Neb.
Forrest Mearl Keen, A.B. (Heidelberg College).....	Columbus
Lin Lin, B.A. (Great China University) ; M.A.....	Columbus
Rhea Dawn Logan, B.A., M.A.....	Columbus
Jay William McKee, A.B. (University of Toledo) ; M.A.....	Monclova
Ivan Albert Planck, B.Ch.E., M.Sc.....	Warren
Joseph Laurence Quinn, A.B., M.S. (Boston College).....	Columbus
Eri Jay Shumaker, A.B., M.A. (Denison University).....	Granville
Donald Robert Swan, B.S. (University of Toledo) ; M.A.....	Toledo

(Eighteen Candidates)

MASTER OF ARTS

Kalman Dale Archibald, A.B. (Denison University).....	Columbus
Elinor Brading, B.A. (University of California).....	Johnson City, Tenn.
Quincy Adams Cheadle, A.B. (Denison University).....	Columbus
Elizabeth Marian Engle, B.Sc. in Edu.....	Dayton
Marlin Kelton Farmer, B.Sc. in Edu.....	Piketon
Mildred Fearrington Hargraves, B.A.....	Columbus
Chester Adolph Heglele, B.S. in Edu. (Ohio University).....	Urbana
Elsie Heipp, B.A. (Ripon College).....	Columbus
Walter Jennings, B.A., B.Sc. in Edu.....	Columbus
Maurice Landy, B.A.....	Cleveland
Theodore Gotthilf Lindner, A.B. (Capital University).....	Columbus
*Hugh Bartley McFadden	Columbus
Randall McLean Miller, A.B. (Wittenberg College).....	Springfield
Alford Moser, A.B. (Bluffton College).....	Bluffton
Margaret Jeannette Persons, B.A. (Western Reserve University).....	Painesville
Earselle Earl Pfeiffer, B.S. in Edu. (Ohio University).....	Minford
Aaron Julius Reiches, B.A.....	Cleveland
Bernard Orlando Roberts, B.S. in Edu. (Muskingum College).....	Pennsville
Eathel LaVelle Rosselot, A.B. (Otterbein College).....	Westerville
*Ronald John Shepherd	Winnetka, Ill.
Florence Katherine Simmons, B.A.....	Cleveland
Richard Wilkinson, A.B. (Rollins College).....	Warren
Paul Dean Woodring, B.S. in Edu. (Bowling Green State College).....	Delta

(Twenty-three candidates)

MASTER OF SCIENCE

Jose Balonquita Acebo, B.S. in Agr.....	Solano, Neuva Vizcaya, P. I.
David Harrod Carr, B.Sc. in Agr.....	Washington, C. H.
Arthur Shotter Coffinberry, B.E.Physics.....	Columbus
Henry Earle Larzelere, A.B. (Oberlin College).....	Lakewood
William Henry Liggett, B.C.E.....	Marysville
Ward Jepson Remington, B.S. (University of South Carolina).....	Charleston, S. C.
Richard Foerster Robey, B.A.....	Columbus
Leonard Isaac Schiff, B.E.Physics.....	Columbus
Joseph Elijah Webb, Jr., B.S. (Clemson Agricultural College).....	White Pond, S. C.

(Nine candidates)

* Two degrees.

CANDIDATES FOR TWO DEGREES

Jane Esther Davis	Walbridge
Bachelor of Arts	
Bachelor of Science in Education	
Hugh Bartley McFadden	Columbus
Bachelor of Arts	
Master of Arts	
Ronald John Shepherd.....	Winnetka, Ill.
Bachelor of Arts	
Master of Arts	

(Three candidates)

COLLEGE OF AGRICULTURE

Dean: JOHN F. CUNNINGHAM

BACHELOR OF SCIENCE
IN AGRICULTURE

George William Boyer	Ashland
Harold Frederick Breimyer.....	Fort Recovery
John Leonard Burkholder.....	Canfield
Fred Milton Charles	Columbus
Orville Stanley Corn	Worthington
Branson Holton Holtzapple.....	Elida
Wayford Ollen Metzger.....	Felicity
Arden Milo Mowrer.....	Wooster
Robert Nelson Winkle.....	Mowrystown

(Nine candidates)

BACHELOR OF SCIENCE
IN HOME ECONOMICS

Louise Ann Bayha.....	Columbus
Mary Margaret Bird.....	Continental
Mary Martha Hughes.....	Hillsboro
Mary Katheryn Long.....	Fostoria
Florentia Corrodi Simpson.....	Columbus

(Five candidates)

COLLEGE OF ARTS AND SCIENCES

Dean: WALTER J. SHEPARD

BACHELOR OF ARTS—WITH HONORS

*Jane Esther Davis (cum laude).....	Walbridge
Gwynne Blakemore Evans (cum laude and with Distinction in English).....	Columbus
Herman Bernard Galvin (cum laude).....	Cleveland
*Hugh Bartley McFadden (summa cum laude and with High Distinction in Psychology).....	Columbus
*Ronald John Shepherd (cum laude and with Distinction in History).....	Winnetka, Ill.

(Five candidates)

BACHELOR OF ARTS

Winifred Armstrong	Columbus
Susan Marksbury Breidenbach.....	Columbus
Gordon Campbell Brown.....	Columbus
William Porter Bunner, B.Sc. in Edu.....	Columbus

* Two degrees.

Dema Garnet Cain.....	Columbus
Ned Nelson Case.....	Columbus
Ann Mary Cordier.....	Columbus
James Klink Cunningham.....	Newark
Eugene McKinley DuBois.....	Columbus
Abraham Gerdy	Cleveland
Edward Mellon Gruber.....	Columbus
James Glenn Healey, B.Sc. in Edu.....	Columbus
Jane Brundage Hoffman.....	Columbus
Doris Elizabeth Hooley.....	Columbus
Myra Torrance McCrory.....	Columbus
William Edward McFadden.....	Columbus
Hester Ann Moyer.....	Columbus
Mary Louise Pfening, B.Sc. in Edu.....	Columbus
Grace Mae Pinsenschaum.....	Columbus
John Gomer Richards.....	Columbus
Emily Shoenberger	Columbus
Harry Spielvogel	Cleveland
Mary Moser Tangeman.....	Wapakoneta
Jessie Douglas Thatcher.....	Columbus
Robert Christian Tumbleson.....	Columbus
Joseph John Vercillo.....	Cleveland
Carl Wachenschwanz (as of the Class of 1931).....	Columbus
Bernice June Weiss.....	McKeesport, Pa.
Milton Zare	Cleveland

(Twenty-nine candidates)

COLLEGE OF COMMERCE AND ADMINISTRATION

Dean: WALTER C. WEIDLER

BACHELOR OF SCIENCE
IN BUSINESS ADMINISTRATION

Robert George Baesman.....	Columbus
Charles Tedrick Barnes.....	Akron
Robert Arthur Fitting.....	Erie, Pa.
Lyman Francis Gruber.....	Columbus
Edith Mary Harig.....	St. Bernard
Archie Russell Jackson.....	Mt. Vernon
Gilbert Valentine Kelling.....	Cleveland Heights
Ralph Lovell Knibloe.....	Columbus
Herman David Krieger.....	Toledo
Kenneth Earl Laird.....	Dayton
Robert Ferris Lint.....	Toledo
Omar Day Lloyd.....	Dayton
Ida Adeline Mastriani.....	Poland
Jack William Miller.....	Columbus
Roberto Rietzen Mortimer.....	Columbus
Wayne Harvey Myers.....	Upper Sandusky
Dennis Alfred Newman.....	Kenmore, N. Y.
James Harlan Paschal.....	Columbus
Russel Edmund Spencer.....	Columbus
William Harrison Webb.....	Niles
Benjamin Kellerman Williams.....	Columbus
David Woodard Williams.....	Lakewood

(Twenty-one candidates)

BACHELOR OF SCIENCE
IN JOURNALISM

Arthur Gordon Hyde.....	Massillon
Eugene Harold King.....	New York, N. Y.
Morris Carver Shawkey, A.B. (Marshall College).....	Columbus

(Three candidates)

ANNUAL REPORT

BACHELOR OF SCIENCE
IN SOCIAL ADMINISTRATION

Lillian Louise Hervey.....	Columbus
Rose Cecelia Javis.....	Columbus
Gwen Louise Meredith.....	Columbus
Minnie Altmann Siegel.....	Columbus

(Four candidates)

COLLEGE OF EDUCATION
Acting Dean: EARL W. ANDERSONBACHELOR OF SCIENCE
IN EDUCATION

Elsa Jane Carroll, B.Sc. in Jour., M.A.....	Columbus
Juliet Ann Coles.....	Columbus
Elzaibeth Velma Crater, B.A.....	Columbus
Alice Lillian Crist.....	Columbus
*Jane Esther Davis.....	Walbridge
Nettie Ellen Drake.....	Columbus
Robin Dye.....	Columbus
Ruth Emblen Fry.....	Smithfield
James Lee Gordon.....	Columbus
Cherry Arthur Groome.....	Columbus
Ruth Clark Headington.....	Mt. Vernon
Guy Howard Mallory.....	Clarington
Roy Maurice Myers.....	Youngstown
Helen Henderson Nicholas.....	Columbus
Gene Ballengee Oppy.....	South Charleston
Warren Lee Parkinson.....	Mt. Vernon
Grace Clarke Phelps.....	Columbus
Francis Trimble Rudy.....	Columbus
Elizabeth Mildred Salathe.....	Macedonia
Frank Edward Schneider.....	Hamilton
Merle Holter Simons, B.A. (Ohio Wesleyan University).....	Columbus
Alice Taylor.....	Columbus
Claren Russell Williams.....	Columbus

(Twenty-three candidates)

BACHELOR OF FINE ARTS

Allen Proctor	Portland, Ore.
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(One candidate)

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

BACHELOR OF CERAMIC ENGINEERING

John Frederick Herold.....	Columbus
John Leonard Lannan.....	Columbus

(Two candidates)

BACHELOR OF CIVIL ENGINEERING

George Henry Geil.....	Cleveland
Basil Anthony Myers.....	Louisville

(Two candidates)

* Two degrees.

BACHELOR OF ELECTRICAL ENGINEERING

George Eben Bissell.....Seville
(One candidate)

BACHELOR OF ENGINEERING IN MINING

Walter Lowrie McCloy, Jr.....Columbus
(One candidate)

BACHELOR OF MECHANICAL ENGINEERING

Joseph Robert Swartz.....Findlay
(One candidate)

BACHELOR OF METALLURGICAL ENGINEERING

Paul Winfield Apley.....Kent
John Frank Czotter.....Dayton
John Richard Kropf.....Louisville
Malcolm Ross Murless.....Belmont, Mass.
Robert Lowell Wright.....Akron
(Five candidates)

COLLEGE OF PHARMACY

Dean: CLAIR A. DYE

BACHELOR OF SCIENCE
IN PHARMACY

Harold Leslie Heller.....Harpster
Randolph Tams Taylor.....Dayton
(Two candidates)

COLLEGE OF VETERINARY MEDICINE

Dean: OSCAR V. BRUMLEY

Robert Eugene Blake.....Anderson, Ind.
(One candidate)

COLLEGE OF MEDICINE

Dean: JOHN J. H. UPHAM

CERTIFICATE OF GRADUATE NURSE

Elizabeth Regina Emmer.....Connersville, Ind.
Lynda Cerrydwen Evans.....Flushing
Ruth Eleanor Gordon.....Stockdale
Anita Justine Jeffers, A.B. (Michigan State College).....Newark
Mildred Louise Kruschenski.....Dalton
Virginia Elouise Taylor.....Sidney
Lulu Leota Tippie.....Galena..
(Seven candidates)

MARCH CONVOCATION

GRADUATE SCHOOL

Acting Dean: CARL WITTKÉ

DOCTOR OF PHILOSOPHY

Charles Llewellyn Bernier, B.S. in Ind. Chem. (University of Montana); M.Sc.....	Columbus
Sherman Chau, B.A. (Lingnan University); M.A.....	Columbus
Elizabeth Eleanor Coyle, B.S. (The College of Wooster); M.Sc.....	Galion
Leon Havis, B.S. in Agr. (Texas Technological College); M.Sc.....	Lubbock, Tex.
Emerson Daniel Jenkins, A.B. (Colgate University); M.A.....	Utica, N. Y.
Sidney Benson Kuyendall, B.S. (The University of Illinois).....	Columbus
Wen-I Liao, B.S. (University of Nanking); M. S. (University of Michigan)....	Shanghai, China
Curtis May, B.A., M.A.....	Reynoldsburg
Wendell Belding Steward, B.A. (Pomona College); M.A. (Dartmouth College).....	Columbus
George Willard Watt, B.A., M.Sc.....	Key
George Dewey Wilson, A.B. (Indiana University); A.M. (Columbia University).....	Springfield
Frank Ernest Work, A.B., A.M. (University of Michigan).....	New Concord
Paul Hsueh Kun Yang, A.B. (Yenching University); A.M. (Oberlin College)....	Peiping, China

(Thirteen candidates)

MASTER OF ARTS

Arthur Truman Amerine, B.S. in Edu. (Ohio University).....	Columbus
Norman Nathaniel Beil, B.Sc. in Phar.....	Cleveland
Violet Catherine Boynton, B.S. in Phys.Edu. (University of Cincinnati).....	Columbus
Ruth Catherine Geist, A.B. (The Western College for Women).....	Columbus
Mary Winifred Greene, B.A.....	Columbus
Henry Royer Kreider, Jr., B.S. (University of Toledo).....	Toledo
William Andrew Palm, A.B. (Marietta College).....	Cleveland
Fred Arthur Sheridan, A.B. (Marietta College).....	Columbus
George Randall Staten, B.A. (Ohio Wesleyan University).....	Delaware
Melvin Waddell Walker, B.A. (Wilberforce University).....	Cincinnati
William Alfred Waters, A.B. (West Virginia State College).....	Washington, D. C.
Malcolm Nicholson Wolfe, B.A., B.Sc. in Edu.....	Columbus

(Twelve candidates)

MASTER OF SCIENCE

Dorothy Cryder Dunn, B.Sc. in Edu.....	Columbus
Russell James Emmons, B.S. (Penn College).....	Barnesville
William John Mader, A.B. (Cleveland College).....	Martins Ferry
Hugh Engle Morrison, B.S. (Franklin and Marshall College).....	Columbus
Isidro Radames Pena, B.S. in Sugar Chem. (University of Puerto Rico).....	Ponce, P. R.
Paul William Schmitkons, A.B. (Oberlin College).....	Lorain
Sager Tryon, Jr., B.Sc. (Otterbein College).....	Bowdoin

(Seven candidates)

CANDIDATE FOR DEGREE AND CERTIFICATE

Helen Grace Williams.....	Syracuse
Bachelor of Science in Education	
Certificate of Graduate Nurse	

(One candidate)

COLLEGE OF AGRICULTURE

Dean: JOHN F. CUNNINGHAM

BACHELOR OF SCIENCE
IN AGRICULTURE

Everett Edward Adams.....	Strongsville
Emerson Jesse Ball.....	Athens
Edgar Ray Borst.....	Woodstock
Dwight Schuyler Creamer.....	Jeffersonville
Vernon August Dicke.....	St. Marys
John Melvin Easterday.....	Canton
Ralph Melvin Fuller.....	Columbia Station
Milton Gelbman.....	Youngstown
Paul August Getz.....	Springfield
James Fleming Hum.....	East Palestine
Charles Seavey McDonald.....	Columbus
Joseph Louis Minkin.....	Columbus
Homer Stafford Porteus.....	Coshocton
Donald Layman Putnam.....	McGuffey
Irving Seff.....	Columbus
Roger Eugene Sherman.....	Columbus
John Wilbur Sites.....	Prospect
Walter LeClare Slatter.....	Fremont
William Frederic Swanson.....	Cleveland
Warren Earl Wilkinson.....	Brunswick

(Twenty candidates)

BACHELOR OF SCIENCE
IN HOME ECONOMICS

Estelle Elizabeth Brewer.....	Cincinnati
Mary Ellen Davis.....	Cleveland
Zenobia Fries.....	Bowling Green
Alice Bell Rhoades.....	East Cleveland
Virginia May Smythe.....	Zanesville

(Five candidates)

COLLEGE OF ARTS AND SCIENCES

Dean: WALTER J. SHEPARD

BACHELOR OF ARTS—WITH HONORS

Raymond Frech Mikesell (cum laude).....	Lima
Gerald Gregory Schreiber (cum laude).....	Youngstown

(Two candidates)

BACHELOR OF ARTS

Dorothy Ann Adams.....	Coshocton
Claude Andrew Albert.....	Kenton
Harry Blank.....	Cleveland
Guy Kermit Carr.....	Columbus
Lucile Clifton.....	Columbus
Anna May Collins.....	Columbus
Carolyn Lehman David.....	Jackson
Arthur Henry Feher.....	Cleveland

Henry Herman Fineberg.....	Cleveland
William Allen Flannery.....	Columbus
Godfrey Brandon Frankel.....	Cleveland Heights
Robert B. Goode, Jr.....	St. Paris
Martha Louise Gower.....	Mt. Vernon
Harry William Graly.....	Columbus
Jerome Joseph.....	Cleveland
Robert Frank Kaiser.....	Columbus
Homer Ivan Keck.....	Canton
Richard Adolphus Lucas.....	Columbus
D. Don Macklin.....	Columbus
Elizabeth Campbell Mitchell.....	Columbus
Charles Warnock Proudfit.....	Cambridge
Ann Helen Rethinger.....	Columbus
Harold Eugene Reynard.....	Columbus
Lucile Moore Ridings.....	Pleasant Plain
Irene Rosenfeld.....	Columbus
Frank Merritt Ruhlen.....	Columbus
William Lafayette Shadwick.....	Black Lick
Elizabeth Ingman Silbaugh.....	Lancaster
George Evans South.....	Columbus
Robert Oscar Strauch.....	Wheeling, W. Va.
Marguerite Marie Sullivan.....	Columbus
Joseph B. White.....	Cleveland
Ruth Gross White.....	Cleveland
Edward Brotherton Young.....	Lima

(Thirty-four candidates)

COLLEGE OF COMMERCE AND ADMINISTRATION

Dean: WALTER C. WEIDLER

BACHELOR OF SCIENCE
IN BUSINESS ADMINISTRATION

George Francis Arnold.....	Cleveland
Victor Carl Ballenger.....	Columbus
Ralph Robertson Bayer.....	Columbus
Willard Herschel Burson.....	Lore City
Lloyd Orrin Carlson.....	Chardon
Glenn Lester Clark.....	Ada
Edmond Scott Elsea.....	Findlay
F. Homer Hagaman.....	Cleveland Heights
Don McMillan Hilliker.....	Bellefontaine
Albert Erich Katterhenry.....	St. Marys
Conrad Henry Kuemmel.....	Sandusky
Alfred Joseph Mackan.....	Marysville
George Hartman Moorhead.....	Findlay
Harold Benjamin Nudd.....	Columbus
Louis Sumner Poor.....	Columbus
Andrew William Prince.....	Alliance
George Gillivan Scully.....	Columbus
Walter Clemens Speiser.....	Columbus
Donald McConnaughey Spindler.....	Dayton
Morris Vinocur.....	Cleveland
James Ransom Wood.....	East Liberty

(Twenty-one candidates)

BACHELOR OF SCIENCE
IN JOURNALISM

William Frederick Pyle.....	Kenton
Sylvia Joanne Rich.....	Columbus

(Two candidates)

COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE
IN EDUCATION

Kenneth Weston Bahler.....	Sugar Creek
Ferda Yolanda Barnett.....	Louisville, Ky.
Onabel Winifred Black.....	Columbus
Edna Ruth Blackburn.....	Coal Run
Charles Harrison Blair.....	Columbus
Catherine Louise Brady.....	Columbus
Irven Horton Clements, B.A.....	La Rue
Lawrence Patrick Curtis.....	Middleport
Kenneth Gordon Klein.....	Columbus
Arthur Howard Long, B.A.....	Portsmouth
Howard John Lucas.....	Zanesville
Ruth Eileen McPheron.....	Bellefontaine
Maisie Alberta Myers.....	Cardington
Marian Harper Orrick.....	Columbus
Jane LaMoynes Pavey.....	Columbus
Hannah Fanny Pevovarow.....	Cleveland
Paul Christy Russell.....	Uhrichsville
Paul Leland Sudlow.....	Pleasantville
Donald Edward Todd.....	Oxford
Mildred King Van Court.....	Dorset
Lloyd Lovinus Waite.....	West Valley, N. Y.
Robert Babcock Waite.....	West Valley, N. Y.
Earl Raymond White.....	Columbus
*Helen Grace Williams.....	Syracuse

(Twenty-four candidates)

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

BACHELOR OF CHEMICAL ENGINEERING

Roger Dumm Dubble	Columbus
Herbert Franklin Gray.....	New Vienna
Robert Gerald Lilley.....	Steubenville

(Three candidates)

BACHELOR OF CIVIL ENGINEERING

Clyde Robert Cochran.....	Sunbury
Arthur Edward Laird.....	Ashtabula

(Two candidates)

BACHELOR OF ELECTRICAL ENGINEERING

John Lawrence Evans.....	Huntsburg
Cletus John Joseph Stratman.....	Reading

(Two candidates)

BACHELOR OF INDUSTRIAL ENGINEERING

Clarence James Koons.....	Columbus
John Perry Landahl.....	Marion
Burrell Porter Shirey.....	Columbus

* Two degrees.

Robert Chauncey Wager.....Worthington
 Charles Wagner Warren.....North Plainfield, N. J.
 Carl Raymond Weiler.....West Salem

(Six candidates)

BACHELOR OF MECHANICAL ENGINEERING

Harold Clark English.....Cambridge
 Robert Ellis Wolfe.....Columbus

(Two candidates)

BACHELOR OF METALLURGICAL ENGINEERING

Robert Morris Clevenger.....Marion
 Richard Kenneth Lee.....Bellville
 Harold Walter Moyer.....Massillon

(Three candidates)

COLLEGE OF PHARMACY

Dean: CLAIR A. DYE

BACHELOR OF SCIENCE IN PHARMACY

Francis Joseph Noles.....Columbus

(One candidate)

COLLEGE OF VETERINARY MEDICINE

Dean: OSCAR V. BRUMLEY

DOCTOR OF VETERINARY MEDICINE

Sheldon Willis Sout.....Harrison

(One candidate)

COLLEGE OF MEDICINE

Dean: JOHN H. J. UPHAM

CERTIFICATE OF GRADUATE NURSE

Margaret Ellen Kendall.....Chalfants
 *Helen Grace Williams.....Syracuse

(Two candidates)

JUNE CONVOCATION

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

DOCTOR OF PHILOSOPHY

Myron Vernon Anthony, B.Sc. in Agr., M.Sc.	Louisville
Donald Eric Babcock, B.A., M.A.	Canton
Harold Albert Basilius, B.D. (Concordia Theological Seminary); M.A.	Toledo
Viola Maria Bell, B.S. (Millikin University); A.M. (Columbia University)	Columbus
Roger Marion Bellows, B.A., M.A.	Worthington
Donald Joyce Borrer, B.S. (Otterbein); M.Sc.	Columbus
Harold Clifford Brill, B.S. (Muskingum College); M.Sc.	Mingo Junction
Chung Hsin Chung, A.B. (University of Southern California)	Peiping, China
John Thomas Creighton, B.Sc. in Agr., M.S. (University of Florida)	Gainesville, Fla.
Ralph Howard Davidson, B.Sc. in Agr., M.Sc.	Vandalia
LeRoy Matthew Dearing, B.S., M.S. (Antioch College)	Yellow Springs
Dale Raymond Eberhart, B.A., M.Sc.	Ashland
Robert Mark Estrich, A.B. (Ohio University); M.A.	Edon
William Floyd Faust, B.A., M.A.	Columbus
Edwin John Fellows, B.Sc. in Phar., M.Sc.	Lima
Donald Leslie Fernholz, A.B. (Milton College); M.S. (University of Wisconsin)	Delavan, Wis.
Francis Warren Hibler, A.B. (Bethany College); M.A.	Columbus
Carl Max Hull, B.S. (University of Illinois)	Clinton, Ill.
Clarence Eugene Irion, S.B. (University of Chicago); M.S. (Iowa State College)	Columbus
Joseph Elliott Janney, A.B. (Earlham College); A.M. (Haverford College)	Oxford
Ralph Wallace Kewish, B.A., M.Sc.	Worthington
Charles Jacob Koenig, B.Cer.E., M.Sc.	Columbus
Elbert Clinton Ladd, A.B. (Earlham College); M.Sc.	Columbus
Thomas Huxley Langlois, B.S., M.S. (University of Michigan)	Columbus
Franklin Glenn Liming, B.A., M.Sc.	Bethel
Wen-Piao Lin, B.S. in Chem. Engr. (Drexel Institute of Art, Science and Industry)	Shanghai, China
David Warren Maurer, B.A., M.A.	Columbus
Floyd Alonzo McClure, B.A., B.Sc. in Agr., M.Sc.	Sidney
Harry Fullerton Miller, B.A., M.Sc.	East Akron
Mont Francis Morgan, B.S. in Agr. (West Virginia University); M.Sc.	Ravenswood, W. Va.
Siang O'Yang, B.A. (Peiping National Normal University); M.A.	Tien Chang, Anhwei, China
Erwin Hugh Price, LL.B., M.A.	Columbus
Sol Soltzberg, B.A., M.S. (Western Reserve University)	Cleveland
Frank Nicholas Stanton, B.A. (Ohio Wesleyan University) M.A.	Columbus
Richard Huyette Sudds, B.S., M.S. (Pennsylvania State College)	State College, Pa.
Maurice Emanuel Troyer, A.B. (Bluffton College); M.A.	Columbus
Harold Arthur Waters, B.S. in Agr. (University of Idaho); M.Sc.	Moscow, Idaho
Thomas Bruce Waters, A.B., M.A. (University of Kentucky)	St. Paul, Ky.
Roy Jacob Wertheim, B.A., M.A.	Findlay
Ray George Wood, B.S. in Edu. (Ohio Northern University); M.A.	Cincinnati

(Forty candidates)

MASTER OF ARTS

Oleott Rutherford Abbott, A.B. (Miami University)	Painesville
Selim Said Abboud, B.A. (University of Minnesota)	Minneapolis, Minn.
Roy Calvin Ballenger, B.S. (Muskingum College)	Mansfield
Eloise Bame, B.A.	Carey
Jack Jerome Berry, B.A.	Cleveland

* Two degrees.

Martha Ellen Black, B.A.	Cadiz
Dwight Warner Blauser, B.S. (Otterbein College)	Columbus
Clarence Mert Brown, B.Sc. in Phar.	Columbus
Gordon Campbell Brown, B.A.	Columbus
Rosemary Willo Cartmell, B.A. (Ohio Wesleyan University)	Delaware
Dorothy Eloise Clifton, A.B. (University of Kentucky)	Lexington, Ky.
Frank Cordon Corp, B.S. in Edu. (Kent State College)	Canton
Sara Crist, Ph. B. (Denison University)	Columbus
George Danesis, B.S. in Bus.Adm. (University of Akron)	Akron
Frank S. Davidson, B.A.	Stockport
Dorothy Marie Dicken, B.A.	Oak Harbor
Annabel Jane Dunlop, B. Fine Arts.	Columbus
Margretta Elaine Ervin, B.A., B.Sc. in Edu.	Columbus
*John Dean Gaffey	Columbus
Newell Lauvossier Gates, B.Sc. in Edu.	Beallsville
Alice Harriet Good, B.Sc. in Edu.	Columbus
Paul Gillilan Gunnnett, B.A. (Ohio Wesleyan University)	Newport
Mary Elizabeth Guthrie, B.A. (Ohio Wesleyan University)	Columbus
Mary Pauline Hadley, B.A. (Ohio Wesleyan University)	Wooster
*Seth Hammond	Columbus
Warren Leroy Harding, B.S. in Edu. (Ashland College)	Galion
Ruth Emilie Hessenauer, B.Sc. in H.E.	Columbus
Alfred Julius Hotz, A.B. (Heidelberg College)	Cincinnati
Robert Moore Hughes, B.Sc. in Edu.	Columbus
Alma Jagsch, B.A.	Columbus
Annabelle Lee Jenkins, A.B. (University of Southern California)	Columbus
William Carl Judy, B.Sc. in Edu.	North Lewisburg
Fancheon Boyle Kienzle, B.A.	Columbus
Paul Philip Kirsten, A.B. (Leland Stanford University)	Findlay
Rachel Weaver Kreider, B.A. (Goshen College)	Columbus
Norbert Ferdinand Kruger, B.A. (Western Reserve University)	Cleveland
David Williams Lattimer, B.A.	Columbus
Mary Elizabeth Lewis, B.Sc. in Edu.	Columbus
Frederick Carl Machetanz, B.A.	Kenton
Dorothy Virginia Martin, B.A.	Columbus
Earl Daniel Mayer, B.A., B.Sc. in Edu.	Columbus
Anna Marie McNamara, B.A., B.S. (St. Mary's of the Springs College)	Columbus
James Furman Miller, A.B. (Denison University)	Lima
Frances Roselthae Mong, B.S. (Western Reserve University)	Lodi
Aaron Burr Murray, A.B. (Bluffton College)	Georgetown
Milo Thomas Oakland, B.S. (Lewis Institute)	DeKalb, Ill.
Floyd Elmer Pierce, B.S. in Edu. (Ohio University)	Beverly
Jessie Luella Rhulman, B.Sc. in Edu.	Columbus
Sieghardt Michael Riegel, B.A.	Lakewood
Wilbur Galveston Scarberry, A.B. (Rio Grande College)	Columbus
Oscar Leo Seybold, Jr., B.A.	Mansfield
Miriam Mae Smull, A.B. (Ohio Northern University)	Ada
Russell Lowell Stoner, B.Sc. in Hort.	Dayton
Georgianne Wade Suppiger, B.A. (University of Idaho)	Columbus
Marian Jeffries Tarr, B.Sc. in Edu.	Columbus
Fred Eugene Tipton, A.B. (Ohio University)	Caldwell
Donald Rothrock Torbert, B.Sc. in Edu.	Malta
Harry Peter Ulicny, B.Sc. in Phar.	Salem
Gerald Pierce Van Arnan, Ph.B. (Kenyon College)	Rock Creek
Herman Von Dach, B.A.	Columbus
Gene Alan Wallar, B.S. (Iowa State College of Agriculture and Mechanic Arts)	Minneapolis, Minn.
Charles Lawrence Watrous, A.B., B.S. in Edu. (Kent State College)	Ashtabula
Mamie Lee Winbush, B.S. in Com. (Wilberforce University)	Wilberforce
Elizabeth Drenner Wolf, B.Sc. in Edu.	Clarksburg, W. Va.

(Sixty-four candidates)

* Two degrees.

MASTER OF ARTS
IN SOCIAL ADMINISTRATION

Margery Kinkead McGarraugh, B.Sc. in H.E.....Columbus
(One candidate)

MASTER OF BUSINESS ADMINISTRATION

William Chenoweth Brown, A.B. (Dartmouth College).....Columbus
(One candidate)

MASTER OF SCIENCE

Adrian Guy Allison, B.Cer.E.....Columbus
Bertha May Andrews, B.S. (Cornell University).....Trumansburg, N. Y.
Ozell Allan Atkins, B.S. in Agr. (University of Kentucky).....Lynn Grove, Ky.
George Walton Brainerd, B.S. (Lafayette College).....Martins Ferry
Adonis George Bashbaugh, D.D.S.....Columbus
James Merritt Cayford, B.Cer.E.....Steubenville
Dennis Franklin Davidson, B.A.....New Lexington
Howard Slemmans Davies, B.M.E.....Columbus
Ruth Emily Edwards, B.Sc. in Edu.....Newark
Matthew J. Eggert, D.V.M.....Irvington, N. J.
Nettie Craddock Esselbaugh, B.Sc. in Edu.....Columbus
John Otis Everhart, B.Cer.E., Cer.E.....Columbus
Ray Thomas Everly, B.Sc. in Agr.....Holmesville
Harry Eastman Ewing, Jr., B.A.....Columbus
John Wendel Eysenbach, B.A.....Lima
Roderick Aubrey Frankenberg, B.M.E.....Columbus
Ruth Loretta Godfrey, B.Sc. in H.E.....Columbus
Elden Detalau Haller, B.Ch.E.....Columbus
Harriet Hitchcock, B.A.....Columbus
Arthur Joslin, B.M.E.....Columbus
Joseph Meyer Kaplan, B.A. (Western Reserve University).....Cleveland
Albert Elliott Kimberly, Jr., B.M.E.....Columbus
Chi Kwong Leung, B.S. (Otterbein College).....Sin Lau, Canton, China
Willis Milburn Losh, B.A.....Foster
Opal Jane Matthews, A.B. (Marshall College).....Akron
William Donald Murray, B.A.....Columbus
Harris Reinhardt, B.S. in E.E. (University of Arkansas).....Des Arc, Ark.
Wilma Brosher Setterfield, B.A.....Columbus
Samuel Bell Sharpe, B.S. in Agr. (Rutgers University).....Sewell, N. J.
Edwin M. Sherwood, B.E.Physics.....Columbus
Edward Eugene Slowter, B.Ch.E.....Columbus
Robert Horace Todd, B.M.E.....Delaware
Richard Thurman Wareham, B.A.....Shelby
John Earl Weiler, B.S. (University of Akron).....Barberton
Louis Albert Weinland, B.S. (Otterbein College).....Westerville
John Work Wellman, B.A. (The College of Wooster).....Logan
(Thirty-six candidates)

PROFESSIONAL DEGREES

COLLEGE OF ENGINEERING
Dean: EMBURY A. HITCHCOCK

CERAMIC ENGINEER

Harold Drummond Barger, B.Cer.E., 1916.....Wellsville
John Burdett Blewett, B.Cer.E., 1916.....Wellsville
George Herbert Duncombe, Jr., B.Cer.E., 1915.....Columbus
Ereell Channing Hill, Cer.E., 1911.....Germantown, Pa.
Ralph William Simmons, Cer.E., 1914.....Ford City, Pa.
Ira Elmer Sproat, Cer.E., 1911.....Westport, Conn.
(Six candidates)

CHEMICAL ENGINEER

Arthur Howard Flower, B.Sc. (Chem.), 1907.....	Dayton
Charles Potter Hoover, B.A., 1908.....	Columbus
Harry C. Moore, B.Sc. (Chem.), 1907.....	Atlanta, Ga.
Harry Clifford Mougey, B.Sc. in Ch.E., 1911.....	Detroit, Mich.
Ralph Waldo Shafor, B.Sc. in Ch.E., 1914.....	New York, N. Y.
Orland Russell Sweeney, B.Sc. (Ch.E.), 1909.....	Ames, Ia.
Frank Carl Vilbrandt, B.A., 1915; M.A., 1916; Ph.D., 1919.....	Ames, Ia.

(Seven candidates)

CIVIL ENGINEER

Samuel Theodore Carpenter, B.C.E., 1930.....	Columbus
William Perry Cross, B.C.E., 1930.....	Albany, N. Y.
Emmett Herman Karber, B.C.E., 1930.....	Fort Worth, Tex.
James Reed McDermott, B.C.E., 1917.....	Keyser, W. Va.
Ralph Elton Mumma, B.C.E., 1930.....	Denver, Colo.
Ewart Carl Shreve, B.C.E., 1928.....	Brushy Run, W. Va.

(Six candidates)

METALLURGICAL ENGINEER

Charles Richard Horwedel, B.Sc. in Chem.Eng. (University of Dayton), 1924; M.S. in Met.Eng. (University of Alabama), 1925; Ph.D., 1929.....	Worcester, Mass.
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(One candidate)

COLLEGE OF LAW

Dean: HERSCHEL W. ARANT

JURIS DOCTOR

Joseph Bivens Friedman, B.A.....	Caldwell
Abraham Gertner, B.A.; M.A., Ph.D. (Yale University).....	Columbus
Angus MacIvor Holmes, B.A.....	Columbus

(Three candidates)

BACHELOR OF LAWS

Herman Otto Abele.....	Springfield
Vernon Raymond Barrett, A.B. (Oberlin College).....	Chillicothe
William Jay Bennett, Jr., B.A.....	Columbus
Dorothy Failer Binyon, B.A.....	Columbus
John Darrell Black, B.Sc. in Bus.Adm.....	Lima
Orvin Victor Blumenstiel, B.A.....	Alliance
Harry Eaton Bonaparte, B.A.....	Columbus
Roger Paul Brennan, A.B. (University of Notre Dame).....	Bellefontaine
Charles Earl Brill.....	Cleveland
George David Brown, A.B. (Mount Union College).....	Alliance
Wilbur Thornley Bruce, B.A.....	Steubenville
Don Stuart Cameron.....	Columbus
Philip Cappel, B.Sc. in Bus.Adm.....	Cleveland
Foster Berry Cornwell, A.B. (Ohio University).....	Athens
Thurman Thomas Courtright, B.A.....	Lancaster
Richard Conklin Deeg, B.A.....	Columbus
Joseph Louis Eiseberg.....	Canton
James Franklin Elliott.....	Lisbon
Harry S. Goldstein, B.A.....	Columbus
Willis Johnson Grant.....	Alliance
Morton David Gumble, B.A.....	Columbus

Raymond Leo Hirsch.....	St. Marys
Paul Vernon House, B.A.....	Newark
Stephen Carl Johnson, B.Sc. in Bus.Adm.....	Columbus
Harris Lloyd Jones, B.Sc. in Bus.Adm.....	Radnor
J. Donald Kincaid, Ph.B. (Denison University).....	Crooksville
John William King.....	Columbus
Edward Joseph Kirwin.....	Columbus
*Robert Edmund Leach.....	Columbus
Benjamin Franklin Lehman.....	Cincinnati
Morris Lee Mattlin, B.Sc. in Bus.Adm.....	Columbus
Charles Bernard McCann.....	Steubenville
Albert Abraham Nozik.....	Columbus
Harold McConnell Palmer, B.Sc. in Bus.Adm.....	Columbus
John Lee Pflaumer.....	West Union
Martin Julius Polster, B.A.....	Columbus
Joe Crockett Robinson, B.Sc. in Bus.Adm.....	Green Springs
Myron Adolph Rosentreter.....	Oak Harbor
Charles Merrell Ross, B.A. (Muskingum College).....	Otsego
Leland Robert Rutherford.....	North Olmsted
Russell George Saxby, B.A.....	Portsmouth
Julius Schlezinger, B.A.....	Columbus
Joseph Urlin Schoenborn, B.A.....	Columbus
James Alexander Shaw.....	Reynoldsburg
George Watson Slaughter, A.B. (Wittenberg College).....	Springfield
James Addison Smith, B.Sc. in Bus.Adm.....	Columbus
William Kernahan Thomas, B.A.....	Columbus
Faber Francis Tway.....	West Jefferson
Lawrence Harold Williams.....	Cleveland
Henry Walter Wolf, B.A.....	Columbus

(Fifty candidates)

COLLEGE OF MEDICINE

Dean: JOHN H. J. UPHAM

DOCTOR OF MEDICINE—WITH HONORS

Russell Clyde Bane, B.Sc. in Agr.....	Gallipolis
Zeph John Reid Hollenbeck, B.A.....	Columbus
Herman Harry Ipp, B.A.....	Youngstown
Harlan Paige McGregor, B.A. (Muskingum College).....	Cambridge
William Francis Mitchell.....	Columbus
Daryl J. Mullholand, B.S. in Edu. (Ohio Northern University).....	McCutchenville
Alva Justin Payne, B.A.....	Wilgus
Harold Unger, B.A.....	Cleveland

(Eight candidates)

DOCTOR OF MEDICINE

*Edwin Henry Artman.....	Piqua
Benedict Bernard Backlay, B.A.....	Cleveland
Charles Sherman Baldwin, A.B. (Denison University).....	Mt. Vernon
Olen Dighton Ball, B.A.....	Caldwell
Henry Batsch, B.A.....	Canton
Floyd Cornelius Beelman, A.B. (Otterbein College).....	Willard
Thornton Irwin Boileau, B.A.....	Medeira
Emery Jordon Braun.....	Cleveland
*Elizabeth Ann Bremmer.....	Columbia Station
David Brown, B.A.....	Cleveland
Frank Anthony Catalano, B.A.....	Cleveland

* Two degrees.

Joseph Chervinko, Jr., B.A.....	Columbus
Arthur Robert Cohen, B.A.....	Cleveland Heights
William C. Craig.....	Columbus
*Ewing Herman Crafts.....	Ottawa
Forder Franklin DeMuth, B.A.....	Hicksville
Lloyd Lee Dowell, B.A.....	Bellefontaine
Samuel Clarkson Ellis, A.B. (Wittenberg College); M.Sc.....	Xenia
Samuel Epstein, B.A.....	Youngstown
Melvin Frederick Eyerman, B.A.....	Columbus
Darrell Baker Faust, A.B. (Ohio University).....	Mansfield
Donald James Feerer, A.B. (University of Michigan).....	Columbus
Karl Henry Feistkorn, B.A.....	Columbus
Edgar Elliott Findlay, B.A.....	Columbus
Warren Rice Flanagan.....	Kenton
Sam Friedmar, B.A.....	Toledo
Eugene Miles Fusco.....	Niles
John Anthony Gabel.....	Columbus
Theodore Valentine Gerlinger, A.B. (Capital University).....	Fostoria
Theodore Golden, B.A.....	Columbus
Marcel Greenberg, B.A. (Western Reserve University).....	Cleveland
Arthur Alvin Greenlee, A.B. (Denison University).....	Uhrichsville
Robert Custis Grubbs, B.A., M.Sc.....	Columbus
Henry Linn Hilty.....	Columbus
Joseph Eldon Horton, B.A.....	Berne
James Joseph Hughes, B.S. (University of Notre Dame).....	Fremont
William Mason Jennings, A.B. (Wabash College).....	St. Marys
Karl Frederick Kaufman, B.A.....	Parma
Henri Arthur Kerns, B.A.....	North Lewisburg
Charles Kenneth Kincaid.....	Troy
Jack Edwin Klinge, B.A. (Western Reserve University).....	Massillon
David Raymond Lewis, B.A.....	Lilly Chapel
Hugh Kinsey Long, B.S. (Allegheny College).....	Dennison
Domenic Anthony Macedonia.....	Steubenville
Nathan Walter Manow, B.S. in Phar., A.M. (University of Michigan).....	Cleveland
Archie Julien Martin.....	Dillonvale
Richard LeRoy McFarland, B.A.....	Columbus
Robert Eugene Merrill.....	Toledo
Paul David Meyer, B.A.....	Cleveland
James Wellington Norris, B.A.....	Columbus
Deane Haworth Northrup, A.B. (Marietta College).....	McConnelsville
Raymond Guy Plummer.....	Columbus
Lillian Marie Posch, B.A.....	Cleveland
William Karl Romoser, B.A.....	Columbus
John Robert Scherer.....	Portsmouth
Albert Louis Schonberg, B.A.....	Cleveland
Leon Meyer Shulman, B.A.....	Steubenville
Robert Fries Slotterbeck, B.A.....	Bloomdale
Herman Cooper Smith, B.A.....	Cleveland
*Stanley Carlyle Sneeringer.....	Mansfield
Frank Leslie Snyder, B.A.....	Hamilton
*Frederick Ellsworth Spangler.....	Somerset
Donald Rees Sperry, A.B. (Denison University).....	Newark
Maurice Eugene Stilwill.....	Massillon
Thomas Luther Taylor, Ph.G., B.S. in Edu. (Valparaiso University).....	Monclova
James Edgar Thompson.....	Lima
James Robert Thompson.....	Mt. Gilead
John M. Thompson, Jr., B.A.....	Columbus
Arthur Joseph Tronstein, B.A. (Western Reserve University).....	Cleveland
Ray Maurice Turner, B.Sc.....	Springfield
John Paul Urban.....	Columbus
John Francis Ury, B.A.....	Defiance
Samuel Lloyd Weir, B.A.....	Carrollton

* Two degrees.

Arthur Edward Wentz, B.A.....	South Charleston
Rex Hamilton Wilson, B.A. (Ohio Wesleyan University).....	Akron
(Seventy-five candidates)	

COLLEGE OF DENTISTRY

Dean: HARRY M. SEMANS

DOCTOR OF DENTAL SURGERY

Edward Goodwin Austin.....	Blanchester
John Philip Baldrige.....	Westerville
William Thomas Barnes, B.A.....	Zanesville
Irving Harold Barnett.....	Asbury Park, N. J.
Edward Henry Bernard.....	St. Henry
Wilfred Lonzo Brunk, B.A.....	Lima
Otto Lawrence Buchholz.....	Columbus
David Allan Budin, A.B. (Oberlin College).....	Cleveland Heights
Regis Joseph Callahan.....	Columbus
Glenn Luther Casto.....	Urbana
Philip Cohen.....	Huntington, W. Va.
James Peter Collins.....	Springfield
William George Dibsick.....	Paterson, N. J.
Harold Lamar Edmonds.....	Springfield
Elden Monroe Farber.....	Crestline
Henry Nicholas Finelli.....	Columbus
Sidney Zachary Fisch.....	Newark, N. J.
Albert Emanuel Frank.....	Cleveland
Albert Goldberg.....	Akron
Milton Honig.....	Hillside, N. J.
Kermit J. Houser.....	Akron
Robert Edward Howey.....	Defiance
Colby Conrad Jackson.....	Charleston, W. Va.
Ben Bernard Kaplow.....	Cleveland
Alfred Frank Kasik.....	Cleveland
Philip Kass.....	Toledo
Haldon Warren Keiser.....	Fremont
Ruth Dressler Kirsten, B.E., A.B. (Findlay College); M.A.....	Columbus
Charles Edward Koenig.....	Hamilton
James Albert Kreider.....	Newark
Louis Robert Leaman.....	Nelsonville
Howard Whitney Leeper, B.A. (Muskingum College).....	Alliance
Aaron Lewis Levitas.....	Newark, N. J.
Lester Lind, B.A.....	Zanesville
Wade Fisher Lower.....	Millersburg
Robert Leroy Marquart, B.A. (Ohio Wesleyan University).....	Crestline
Marion Wilmer McCrea.....	Dunkirk
Robert Thomas Mehl, A.B. (Ashland College).....	Ashland
Evan Dwight Morgan.....	Columbus
James Shira Pegg.....	Columbus
Sidney Pollack, B.S. in Aect. (Syracuse University).....	Columbus
William Arthur Purcell.....	Amherst
George Frederick Quidort.....	Pioneer
Milton Fay Rice.....	Cleveland
Samuel Emanuel Sadowsky.....	Rochester, N. Y.
Homer Jay Scholl.....	Bremen
Louis James Schwartz.....	Youngstown
Richard Henry Spencer.....	Columbus
William Howard Stone.....	Portsmouth
Irving Bernard Tapper.....	Akron
Harry Francis Vogelsberg.....	Springfield
Leonard Wasserstrom.....	Columbus
Stanley Wasserstrom.....	Columbus
Gaylord Daniel Wiederkehr.....	Columbus

(Fifty-four candidates)

COLLEGE OF VETERINARY MEDICINE

Dean: OSCAR V. BRUMLEY

DOCTOR OF VETERINARY MEDICINE

Henry Jackson Apple, B.Sc. in Agr., M.Sc.	Columbus
Joseph Edward Badger	Littleton, N. J.
Lowell Ray Barnes	Pendleton, Ind.
Jack Downing Bender	Nashville, Tenn.
George Berger	Berlin, Germany
Max Harold Carlin	Cleveland
John Howard Collins	Worthington
Allen Edgar Corbine, Jr.	Columbus
Benjamin Frank Corbin	Columbus
Danford Lodge Cox	Willoughby
Odin Esten Dovre	Minneota, Minn.
David Sherman Elsasser	Kenton
Lewis Ward Evans	Russiaville, Ind.
Robert Arthur Ewing	North Jackson
John A. Bethel Fleming	Amherst
Glen Orahood Fly	Indianapolis, Ind.
Irvin Warner Frock	Westminster, Md.
Bernard Harrison Gibson	Columbus
Charles Lynn Hauptert	Port Washington
Dwight G. Herd	East Liberty
Charles Perry Hesse	Carroll
Vaughn Eugene Ishee	Middlefield
Edgar Stanley Johnson	Elwood, Ind.
Thomas Peter Koudelka	Reedsville, Wis.
William Newton Kramer	Dayton
Joseph David Kress	Columbia, Conn.
Leo Leibsch Lieberman	Bridgeport, Conn.
Charles Bertram Linzinmeir	Marysville
Jacob Philo Mauney	Kings Mountain, N. C.
Hugh Collins McCormick	Pendleton, Ind.
Harry Francis McEwan	Elburn, Ill.
Arthur Evans Moats	Waverly
Joseph Ben Morse	Cleveland
Charles Manuel Muniz	Ponce, P. R.
Charles Meredith Parker	Vienna, Ill.
Max Robinson Peters	Redkey, Ind.
William Earl Rhodes	Columbus
Peter Syer Roy	Southampton, England
Ernest Eugene Saulman	Wadesville, Ind.
Ke Tun Shen	Lanchow, Kansu, China
Leo Sigel Shives	Hancock, Md.
Emanuel Silverstein	New York, N. Y.
Earl Matzen Simonson, A.B. (University of Nebraska)	Hooper, Neb.
Claude Argyl Smith	Fayette
Phillip Anthony Sollomi	Cleveland
Harold Monroe Spangler	Somerset
Forrest Franklin Tenney	Antrim, N. H.
Carl Conrad Tucker	Claypool, Ind.
Jennings Lee Ward	Lancaster
Robert Simpson Warnock	Aledo, Ill.
Clifford Walter Wilder	Chatham, N. Y.
Clarence Andrew Woodhouse	Columbus

(Fifty-two candidates)

CANDIDATES FOR MORE THAN ONE DEGREE

Helen Frances Addison.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Edwin Henry Artman.....	Piqua
Doctor of Medicine	
Bachelor of Arts	
Mabel Louise Blume.....	Miamisburg
Bachelor of Arts	
Bachelor of Science in Education	
Elizabeth Ann Bremner.....	Columbia Station
Doctor of Medicine	
Bachelor of Arts	
Erik Irving Bromberg.....	Cleveland
Bachelor of Arts	
Bachelor of Science in Education	
Lily Hazel Chafin.....	Proctorville
Bachelor of Science in Education	
Certificate of Graduate Nurse	
Robert Clark Cochran.....	Mt. Pleasant
Bachelor of Industrial Engineering	
Bachelor of Mechanical Engineering	
Jack Phillip CoVan.....	Columbus
Bachelor of Industrial Engineering	
Bachelor of Mechanical Engineering	
Ewing Herman Crawfis.....	Ottawa
Doctor of Medicine	
Bachelor of Science	
Irving Yole Eisen.....	Newark, N. J.
Bachelor of Arts	
Bachelor of Science in Education	
Eloise English.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
John Dean Gaffey.....	Columbus
Master of Arts	
Bachelor of Arts	
Frances Lucille George.....	Zanesville
Bachelor of Science in Education	
Certificate of Graduate Nurse	
Walter Raymond Gilsdorf.....	Columbus
Bachelor of Science in Business Administration	
Bachelor of Electrical Engineering	
Arden Roy Hacker.....	Sandusky
Bachelor of Industrial Engineering	
Bachelor of Mechanical Engineering	
Seth Hammond.....	Columbus
Master of Arts	
Bachelor of Arts	
Virginia Rose Hawley.....	Galena
Bachelor of Arts	
Bachelor of Science in Social Administration	
Robert Edmund Leach.....	Columbus
Bachelor of Laws	
Bachelor of Arts	
Raymond Frank Lenart.....	Rock Creek
Bachelor of Arts	
Bachelor of Science in Education	
Ruth Leah Lichtenstein.....	Newark
Bachelor of Arts	
Bachelor of Science in Education	

James Homer McFee	Lancaster
Bachelor of Industrial Engineering	
Bachelor of Mechanical Engineering	
Dorothy Bell McFeely	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Helena Agnes Miller	Rudolph
Bachelor of Arts	
Bachelor of Science in Education	
Margaret Victoria Schulze	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Ellen Simpson	Akron
Bachelor of Arts	
Bachelor of Science in Education	
Stanley Carlyle Sneringer	Mansfield
Doctor of Medicine	
Bachelor of Arts	
Frederick Ellsworth Spangler	Somerset
Doctor of Medicine	
Bachelor of Arts	
Walter Marshall Stout	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
John Gilbert Tapp	West Mansfield
Bachelor of Electrical Engineering	
Bachelor of Mechanical Engineering	
Rebecca Kathryn Tapp	West Mansfield
Bachelor of Science in Education	
Certificate of Graduate Nurse	
Robert Erwin Tucker	Akron
Bachelor of Arts	
Bachelor of Science in Education	
Marion Katherine Whitehead	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Harry Paul Wowra	Barberton
Bachelor of Arts	
Bachelor of Fine Arts	
Anna Richarda Zwerman	Monroeville
Bachelor of Arts	
Bachelor of Science in Education	

(Thirty-four candidates)

BACCALAUREATE DEGREES

COLLEGE OF AGRICULTURE

Dean: JOHN F. CUNNINGHAM

BACHELOR OF SCIENCE
IN AGRICULTURE

David Franklin Beard	Portage
Judson Joseph Beougher	Laurelville
Ralph William Bergman	Bryan
Lawrence Albert Best	Pennsville
Glen Robert Boling	Fredericksburg
Ralph Edward Brooks	Union City, Ind.
Robert Donald Campbell	Ripley
Glen Wilson Dafer	Farmersville
Zonas Ansel Estell	Circleville

Dan Foote	Delaware
Donald Clarence Foster.....	Granville
Clovis Dubois Fritter.....	New Concord
Cornelius Grinnell	Yellow Springs
Marshall Cole Hervey.....	Westerville
Stanley Eugene Hill.....	Cozaddale
William Ireland, Jr.....	Columbus
Lamar Henry Jones.....	Cleveland
Robert Edward Kibbey.....	Lebanon
Simon Levine	Cleveland
Charles William Mann.....	Wooster
John Given McConnell.....	Salem
Merrit Temple Monson.....	Richwood
Howard Woodrow Nowels.....	Warsaw
Ransom Stewart Oetzel.....	Huron
John Alden Payn.....	Lodi
James Salmon Peebles.....	Rushtown
Robert Wendell Peoples.....	Columbus
Leland Elwood Phillips.....	Barnesville
Carlton Graydon Potter.....	Solon
Harry Edward Pounds.....	Massillon
Charles Vallier Price.....	Pittsburgh, Pa.
Alvin Daniel Reuwee.....	Sunbury
Donald Alfred Richardson.....	Akron
Charles Leo Schlotterbeck.....	Lewisburg
William Henry Short.....	Columbus
Carl Kenneth Shuman.....	Fletcher
Jack Emley Smith.....	Hamilton
Eugene Leslie Sparrow.....	Springfield
Wilbur Homer Swallen.....	Alliance
Orvin August Traver.....	Milbury
Philip Henry Truax.....	Woodsfield
Adelbert David Ward.....	Perrysburg, N. Y.
George Bernard Watkins, Jr.....	Zanesville
Richard Herman Weiskircher.....	Martins Ferry
William Henry Zipf.....	Columbus

(Forty-five candidates)

BACHELOR OF SCIENCE
IN HOME ECONOMICS

Goldie Abosch	Cleveland
Lucille Irene Adams.....	Kimbolton
Elizabeth Ann Beckwith.....	Malta
Ivis Gwendolyn Bessey.....	Columbus
Amanda Irene Bishop.....	Plain City
Lois Jane Blosser.....	Edgerton
Margaret Fitzgerald Bremner.....	Berea
Mary Brown	Greenville
Catherine Almeda Claughton.....	Lexington, Ky.
Miriam Esther Donnenwirth.....	Plymouth
Doris Belle Eckfeld.....	Columbus
Mary Elizabeth Eesley.....	Columbus
Wilda Martha Eger.....	Sandusky
Maxine Mildred Elliot.....	West Mansfield
Roberta Estelle Falkenstein.....	Columbus
Ruth Elfinor Fischer.....	Columbus
Ruth Antoinette France.....	Lima
Florence Wilda Gorden.....	Amlin
Olive Ruth Grimm.....	Columbus
Hannah Eleanor Harman.....	Zanesville
Mary Bourdette Heath.....	Columbus
Constance May Hendrick.....	Columbus
Elizabeth Herczegh	Cleveland

Estella Jean Hodgson.....	Dayton
Lois W. Huff.....	Columbus
Beatrice Juanita Hufford.....	Bremen
Reba Lois Hummell.....	Carroll
Helen Susan Jarvis.....	Toledo
Marjorie Kendrick Jarvis.....	Cleveland
Ruth Ann Kent.....	Westerville
Marjorie Alice Kissell.....	Bellefontaine
Virginia Lentz.....	Marysville
Elizabeth Jane Martin.....	Logan
Margaret Parker Mather.....	Washington, D. C.
Dorothy Louise Matthewson.....	Powell
Alberta Jen McGee.....	Martins Ferry
Catherine Fay Miller.....	Martins Ferry
Florence Elizabeth Miller.....	Canal Winchester
Jane Moody	Groveport
Eva Luella Moon.....	Conover
Lloyd Maxine Mooney.....	Columbus
Margaret Alice Morse.....	Columbus
Eleanor Virginia Nessley	Pataskala
Edna Palmer	Van Wert
Edith Rita Parker.....	Washington, D. C.
Georgiana Rosetta Rew.....	Ashtabula
Vere English Richards.....	Columbus
Elizabeth Scatterday	Akron
Dorothy Shiff	Columbus
Emma Jane Slabaugh.....	Columbus
Margery Smith	Columbus
Jean MacIntyre Sohn.....	Louisville, Ky.
Isabel Marie Steele.....	South Vienna
Kathryn Sedilia Streich.....	Columbus
Mary Dorothy Swank.....	Dayton
Mary Famah Teegardin.....	Duval
Jean Walters	Columbus
Frances Rowena Watson.....	Columbus
Nina Jean Westcott.....	Ashtabula
Margaret Adaline Youman.....	Columbus

(Sixty candidates)

COLLEGE OF ARTS AND SCIENCES

Dean: WALTER J. SHEPARD

BACHELOR OF ARTS—WITH HONORS

Charles Leonard Boye (cum laude).....	Columbus
*Erik Irving Bromberg (cum laude and with Distinction in History).....	Cleveland
Warren Lytle Calvert (cum laude and with High Distinction in Geology).....	Columbus
Doris McLean Campbell (cum laude and with High Distinction in Biological Sciences).....	Columbus
Virginia Gail Canfield (cum laude).....	Columbus
Norman Oswald Cappel (with Distinction in Chemistry).....	Dayton
Marybelle Carr (cum laude).....	Columbus
John Bruce Dods (cum laude).....	Columbus
Richard Goth Fisher (cum laude).....	Cleveland
Justin Hall Folkerth (cum laude).....	Columbus
*John Dean Gaffey (summa cum laude and with High Distinction in Economics).....	Columbus
Nathan David Grundstein (cum laude).....	Cleveland
Joseph Leonard Halberstein (cum laude).....	Sidney
*Seth Hammond (summa cum laude and with High Distinction in History).....	Columbus
Charles Brainard Hart (cum laude).....	Madison
Arthur Jacob Hersch (cum laude and with High Distinction in Economics).....	Columbus
Margaret Ann Johnson (cum laude).....	Columbus

* Two degrees.

Meier Kohn (cum laude and with Distinction in English).....	Cleveland Heights
Moses Konigsberg (cum laude and with Distinction in Chemistry).....	Cleveland
Richard Henry Leukart (cum laude and with Distinction in Psychology).....	Columbus
Donald Royal Myers (cum laude).....	Independence
Ellis Dickson Neunherz (cum laude and with Distinction in Chemistry).....	Columbus
Joseph Leonard Osberger (with Distinction in Economics).....	Cleveland
Elizabeth Jane Pierce (summa cum laude).....	East Cleveland
Miles Reed (with Distinction in English).....	Zanesville
Clarence Arthur Seabright (with Distinction in Chemistry).....	Columbus
Virginia Steward (cum laude).....	Columbus
*Robert Erwin Tucker (cum laude).....	Akron
Harold Frederick Vivian (with Distinction in Chemistry).....	Springfield
Walter Lynn Wall (summa cum laude and with High Distinction in German).....	Columbus
Karl Milton Wilbur (cum laude).....	Binghamton, N. Y.
Anthony Wayne Wonderley (cum laude and with High Distinction in German).....	Columbus

(Thirty-two candidates)

BACHELOR OF ARTS

*Helen Frances Addison.....	Columbus
Edward Joseph Anglin.....	Steubenville
John Robert Anglin.....	Steubenville
*Edwin Henry Artman.....	Piqua
Donald J. Barnes.....	Wellington
Benjamin Harry Berman.....	East Liverpool
Dorral Dwaine Berry.....	St. Paris
Mary Elizabeth Bird.....	Columbus
*Mabel Louise Blume.....	Miamisburg
Helen Lucille Boucher.....	Columbus
William Pearson Bownas.....	Youngstown
Evelyn Alice Bowyer.....	Cleveland Heights
*Elizabeth Ann Bremner.....	Columbia Station
Rosemary Brightman.....	Columbus
Robert Herman Brinkmeyer.....	St. Marys
Esther Brown.....	Columbus
Marie Andrews Brown.....	Worthington
Robert Raymond Brown.....	Columbus
Elton Burch Burky.....	Youngstown
Marcus David Burnstine.....	Columbus
Ruby Mae Byers.....	Waverly
Lois Adele Calloway.....	Columbus
Florence Lucile Christman.....	Columbus
Eli Chudakoff.....	Youngstown
Lillian Ethel Clark.....	Jefferson
Gordon Sherman Crowl.....	Delaware
Thomas Robert Curran.....	Columbus
Adolphus Fuller Dean.....	Columbus
Willis Riley Deming.....	Columbus
Mary Lou Briggs DeVennish.....	Briggsdale
Walter Leonard DeVold.....	Zanesville
Lowell Oren Dillon.....	Springfield
Hugh Carlton Dorr.....	Columbus
Louis Lester Duber.....	Cleveland
Helenya Louise Dunnivant.....	Warren
Charles Waldemar Ebersold.....	Columbus
*Irving Yole Eisen.....	Newark, N. J.
Ada Louise English.....	Columbus
*Eloise English.....	Columbus
Harry Finkelstein.....	Dorchester, Mass.
Stanley Henry Florzack.....	Cleveland
Jerome Stanley Frankel.....	Cleveland
Juanita Faye Friend.....	Columbus

* Two degrees.

Catherine Eugenie Gaddis.....	Worthington
Salomea Alice Gerlinger.....	Fostoria
Herman Davis Gibson.....	Newark
Elizabeth Virginia Gill.....	Columbus
Guertha Mary Gillett.....	Columbus
Harold Earl Gottlieb.....	Columbus
Boyd Earnest Graham.....	Dayton
Robert Earl Greenlee.....	Circleville
Howard Woodrow Grissom.....	Portsmouth
Elton Barnard Gudenkauf.....	Minster
Frederick Ralph Guilford.....	Salem
Amelia Louise Halbedel.....	Upper Sandusky
Dorothy Dolores Harper.....	Columbus
William Coulson Hatton.....	Columbus
*Virginia Rose Hawley.....	Galena
Glen Ethel Helpbringer.....	Marion
Mary Downs Herron.....	Chillicothe
Joseph Skeldon Heyman.....	Toledo
Jean Hill.....	Columbus
Constance Mabury Holmes.....	Columbus
George Holtzer.....	Springfield
Gerald Burton Hoover.....	Newark
Martin Mayer Horowitz.....	Columbus
Robert Morgan Inglis.....	Columbus
Elnora Mae Innis.....	Columbus
Frederick David Ives.....	Pittsburgh, Pa.
Edward Charles Jenkins.....	Akron
Dorothy Elizabeth Johnson.....	Cleveland
Virginia Ann Jones.....	Marietta
Dorothy Helen Joseph.....	Cincinnati
Ruth Joy.....	Dayton
Sidney Clifton Katz.....	Youngstown
William Jacob Katz.....	Far Rockaway, N. Y.
Carl Korby Kelman.....	Cleveland Heights
Eugene Elihu Kent.....	Columbus
Victor Alvin Ketcham, Jr.....	Columbus
Martha Mary Kildow.....	Tiffin
Ruth Irene Kirby.....	Mt. Vernon
Edward John Kirchner.....	Columbus
Harold Farrel Klein.....	East Cleveland
Evelyn Mae Koslen.....	Cleveland Heights
Abner Irving Kurjan.....	Youngstown
Alfred Labenski.....	Nanticoke, Pa.
Mary Margaret Lacey.....	Columbus
William Henry Lane.....	Newark
Marie Antoinette Langer.....	Columbus
*Robert Edmund Leach.....	Columbus
Martha Jane Leibenderfer.....	Dayton
*Raymond Frank Lenart.....	Rock Creek
Esther Frances Levinson.....	Columbus
*Ruth Leah Lichtenstein.....	Newark
Abraham D. Lockshin.....	Youngstown
Henry Andrew Long.....	Hamilton
Mary Elizabeth Longwell.....	Zanesville
Robert Jewell MacIvor.....	Marysville
Laurence Gerard Mackin.....	Columbus
Corrille Elizabeth Malloy.....	Columbus
Charles Lee Mantle.....	Painesville
Margaret DeLay Markel.....	Columbus
Harriette Louise Martin.....	Huntington, W. Va.
Julian Spencer Maxey.....	Ironton
Maria Webb McCallum.....	Chillicothe

* Two degrees.

Richard Daniel McCann.....	Columbus
*Dorothy Bell McFeely.....	Columbus
Paul Gerhard Meckstroth.....	New Knoxville
Max Alfred Mendelson.....	Bellaire
Donna Edna Mersman.....	Celina
Robert Emmett Mescal.....	Bay Village
*Helena Agnes Miller.....	Rudolph
Joseph M. Millious.....	Columbus
Harry Arthur Minds.....	Columbus
Charles Moszczynski.....	Cleveland
Paul Anthony Munter.....	Canton
John Valiton Murphy.....	Toledo
Fred Edward Nathanson.....	Cleveland Heights
Margaret Louise Penney.....	Columbus
Elizabeth Pettis.....	Columbus
Alice Genevieve Poston.....	Logan
Marjorie Edna Potts.....	Columbus
Robert Emerson Potts.....	Columbus
Pliny Austin Price.....	Leesville
Walter Bradford Price.....	Rochester, N. Y.
Sylvestro Salavan Primevera.....	Canton
John Alan Prior.....	Columbus
Robert Rush Reed.....	Columbus
Robert Emmett Reilly.....	Columbus
Harold Kersey Roberts.....	Urbana
Hubert Nelson Robinson.....	Columbus
Opal Currier Robinson.....	Columbus
Ruth Barbara Rose.....	Columbus
Evelyn Beula Rosenstein.....	Shaker Heights
Joseph Ruderman.....	Gouverneur, N. Y.
David Waite Russell.....	Columbus
Milton Yale Russetto.....	New Bedford, Mass.
Ruth Sargent.....	Columbus
Robert Elliott Schaefer.....	Fort Wayne, Ind.
Thalia Gildard Schaefer.....	Columbus
Arthur Morris Scheffrin.....	Passaic, N. J.
Raymond Howard Schroeder.....	Dayton
William August Schroer.....	Coldwater
*Margaret Victoria Schulze.....	Columbus
Robert Kenneth Scott.....	Coalton
Leonard Sebransky.....	Elyria
Louise Frances Segal.....	Chillicothe
Joanne Amelia Seikel.....	Dover
Bernard Shapiro.....	Youngstown
Jack Merrill Sharp.....	Columbus
*Ellen Simpson.....	Akron
Maurice Sitomer.....	Woodbourne, N. Y.
John Leon Smith.....	Columbus
*Stanley Carlyle Sneeringer.....	Mansfield
*Frederick Ellsworth Spangler.....	Somerset
William Ridley Sparling.....	London
Ruth Craig Stalder.....	Columbus
Nathan Stern.....	Steubenville
Ivan Sutton St. John.....	Jamestown
Howard Storm.....	Boston, Mass.
Dorothy Boyer Stout.....	Dayton
*Walter Marshall Stout.....	Columbus
Jeanne Marshall Studebaker.....	Columbus
Robert Eugene Teaford.....	Union City, Ind.
Delbert L. Tedrick.....	Cambridge
William Gilbert Thistlethwaite.....	Macedon, N. Y.
Anita Lorene Thurston.....	Columbus

* Two degrees.

John David Toll.....	Zanesville
Clifford Fairfax Valentine.....	Chillicothe
Ima Mae Van Hook.....	Somerset, Ky.
James Trimble Walker.....	Mt. Vernon
Robert Lewis Walker.....	Mt. Vernon
Frederick Lee Walton.....	Toledo
James Vaughn Warren.....	Columbus
Charles Hempstead Wells.....	Dayton
Eleanor Josephine West.....	Columbus
William King Westwater.....	Columbus
*Marion Katherine Whitehead.....	Columbus
Florence Glen Williamson.....	Corona, L. I., N. Y.
Etta Mae Willis.....	Columbus
Viola Laverne Winston.....	Columbus
Eugene DeWald Witman.....	Columbus
Mary Margaret Workman.....	Mt. Vernon
*Harry Paul Wowra.....	Barberton
Wolfe Zapolan.....	Columbus
Asa Joseph Zatz.....	Brooklyn, N. Y.
Harold Curtin Ziegler.....	Columbus
Edward Mitchell Zucker.....	Portsmouth
Helen Eileen Zurmehly.....	Columbus
*Anna Richarda Zwerman.....	Monroeville

(One hundred and ninety candidates)

BACHELOR OF SCIENCE

*Ewing Herman Crawfis.....	Ottawa
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(One candidate)

COLLEGE OF COMMERCE AND ADMINISTRATION

Dean: WALTER C. WEIDLER

BACHELOR OF SCIENCE

IN BUSINESS ADMINISTRATION—WITH HONORS

Robert William Bartels (with Honors and with High Distinction in Marketing)	Wheeling, W. Va.
William Rudolph Brunson (with Honors and with Distinction in Accounting)	Sharon, Pa.
Mary Carolyn Burgess (with Distinction in Marketing)	Columbus
William Joseph Calder (with Distinction in Accounting)	Martins Ferry
Jane Frances Devaney (with Honors and with High Distinction in Finance)	Columbus
Virginia Ruth Shipley (with Honors and with High Distinction in Marketing)	Marion
Donald Hewson Taylor (with Distinction in Accounting)	Woodbury, N. J.
Mary Isabel Thompson (with Distinction in Accounting)	Marion
Samuel Ronald Valskind (with Honors)	Cleveland

(Nine candidates)

BACHELOR OF SCIENCE

IN JOURNALISM—WITH HONORS

Charles Edward Egger (with Distinction in Journalism)	Columbus
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(One candidate)

BACHELOR OF SCIENCE

IN BUSINESS ADMINISTRATION

Richard Joseph Alesch.....	Columbus
Sam Arnold.....	Cleveland
Herbert Arney Baker.....	Dayton
James Mathew Beazell.....	Kent
Thelma Jane Becker.....	Bedford, Ind.

* Two degrees.

Mary Virginia Bee.....	Columbus
William John Beitner.....	Dover
Edgar Lewis Bender.....	Fremont
Robert M. Benjamin.....	Cincinnati
Charles Ellsworth Benson.....	Dayton
Robert William Beoddy.....	Columbus
Ed A. Black.....	Hamilton
William Curtis Borchers.....	Amanda
Walter Oswald Brehme.....	Massillon
Harry William Buckley, Jr.....	Lima
Kenneth Wayne Burkholder.....	Smithville
Wallace Hiatt Canfield.....	Columbus
William Macneal Chambers.....	Cincinnati
John Paul Chapman.....	East Cleveland
Philip Gerald Cochran.....	Erie, Pa.
Robert Smith Conaway.....	Mannington, W. Va.
Katheryn Marie Conwell.....	Columbus
Ralph Howard Cortell.....	Cleveland
Jack Grant Day.....	Covington, Ky.
Lewis Israel Day.....	Columbus
Hugh Albert Delfs.....	Canfield
William Edward Dittoe.....	Youngstown
Nelson Babbitt Doan.....	Portsmouth
Buena Elizabeth Donovan.....	Martins Ferry
Edward Duda.....	Irvington, N. J.
Raymond Edison Dudley.....	Columbus
Robert Taylor Dundon.....	Columbus
John Robert Evans, Jr.....	Hubbard
Orlando George Ezzo.....	Rochester, N. Y.
Bosworth Lewis Faron.....	Uniontown, Pa.
Ronald Stewart Folk.....	Columbus
Dean LeRoy Folsom.....	Albion, Mich.
Murray Star Gardiner.....	Marion
William Russell Gardner.....	Zanesville
Paul James Garrett.....	Buffalo
*Walter Raymond Gilsdorf.....	Columbus
Wilma Hortense Goldberg.....	Indianapolis, Ind.
Edward August Guelde.....	Hamler
John Franklin Harrison.....	Girard
Homer Hugh Haroff.....	Youngstown
Charles Marion Harsha.....	Hillsboro
Frederic Robinson Harwood.....	Springfield
Earl Jones Hedrick.....	Bainbridge
James Conway Herndon.....	Mt. Pleasant
Wilbur Otto Giles Hess.....	Painesville
Arthur Newton Horr, Jr.....	Portsmouth
Kenneth Guy Houts.....	Westfield, N. J.
Robert Walter Ives.....	Columbus
Richard Stubbs Jemison.....	Columbus
William James Jones.....	Cleveland Heights
Emma Cornelia Kale.....	Youngstown
Leroy Donald Kendis.....	Cleveland Heights
Neil Woodrow Lamb.....	Carroll
Carl Louis Laufer.....	Euclid
Mary Ada Logan.....	Columbus
Donald Paxton Mace.....	McConnelsville
David Markel.....	Buffalo, N. Y.
Bertram Waterman Marks.....	Cleveland
Gillette Keim Martin.....	Norwichtown, Conn.
Ralph Jay Martin.....	Cadiz
Darwin Ellis McElwee.....	Geneva
Robert John Miller.....	Columbus

* Two degrees.

Howard Arthur Morgan	Uhrichsville
George Vernace Neal	Dayton
Edythe Jane Needham	Westerville
John Woodward Newman	Cleveland
Pauline Patricia Paterson	Columbus
Richard Curtis Paugh	Columbus
Russell Leonard Peterson	Erie, Pa.
Aileen Marie Philbin	Bucyrus
James Benjamin Pitcock	Crooksville
Jerome Isadore Polster	Cleveland
Jack Taylor Power	Columbus
Howard Melville Price	Columbus
Ralph Albert Printz	Ridgeway
Frank Irwin Reeves	Cleveland
Russell Kenneth Reichelderfer	Cridersville
Cecil Kenneth Rose	Columbus
William Frederick Royer	Bellevue
Walter Melvin Rudin	Mt. Vernon
Mary Jane Ruth	Columbus
John Frederick Saenger	South Vienna
Betty Dorothea Schirtzinger	Columbus
Albert Lewis Schultz	Akron
Frederick Albert Schultze	Louisville
Sanford Schwimmer	Cleveland
Henry Nathan Shier	Cleveland
James Albert Slingluff	Cambridge
Anson Block Smith	Hilliards
Frances Adele Smith	Proctorville
Hamilton Marshall Smith	Lancaster
Robert Lee Smith	Agosta
Virginia Elizabeth Smith	Columbus
Paul Herrington Spyker	Columbus
Hugh Jerome Straker	Greenville
Oscar Chessin Suid	Cleveland
Albert Lovett Taft	Powell
Russell Jay Terpenney	Columbus
Eugene Thal	Dayton
Marcelline Thompson	Columbus
Charles Solon Todd	Columbus
Franklin Clapp Tyson	Detroit, Mich.
Leland Haig Wears	Madrid, N. Y.
Gordon Hyland Wehrly	Dayton
Jacob Shontz Weigel	Mansfield
Merlin Harold Willey	Toledo
Dorothy Geraldine Williams	Dayton
James Joseph Wilson	Westerville
Donald Gale Wood	Columbus
Wendell Edwin Yaple	Chillicothe
Robert Marion Young	Columbus

(One hundred and sixteen candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Ruth Roberta Alton	Columbus
Martha Kay Baskin	Cleveland
Dorothy-Jeanne Louise Bender	Columbus
Elmer Lee Bland	Ironton
Elizabeth Ruth Covington	Columbus
Laura May Crayton	Plain City
Phil Fortman, Jr.	Celina
Vivian Ellen Freiburghouse	Schneectady, N. Y.
Julius Howard Friedman	Cleveland
Frank Thomas Gaumer	Marysville

Wayne William Haapa.....	Fairport Harbor
Thomas Frederick Johnson.....	Columbus
Marie Olive Kellstadt.....	Circleville
Raymond Robert Kohn.....	Mt. Vernon
Ruth Laura Lawrence.....	Lexington
Eleanor Josephine Lynas.....	Columbus
Mae Elizabeth Murphy.....	Baltimore, Md.
William Grant Smock.....	Erie, Pa.
Ralph Kenneth Spencer.....	Massillon
Evangeline Mabel Stout.....	Columbus
Marjorie Tinker.....	Columbus
Walter Traver Watson.....	Conneaut

(Twenty-two candidates)

BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Martha Theodora Dorst.....	Pomeroy
Merton Harold Farnsworth.....	Sullivan
Beth Cole Fisk.....	Cleveland
Jeannette Rose Hammond.....	Williamstown
*Virginia Rose Hawley.....	Galena
Pearl M. Lieberman.....	Cleveland
Miriam Marian Lurie.....	Columbus
Leah Metchnick.....	Columbus
Mary Ruth Mootz.....	Dayton
Mary Margaret Mossteller.....	West Chester
Helen Jane Mundhenk.....	Brookville
Edith Virginia Myers.....	Columbus
Florence Joan Piker.....	Hamilton
Helen Polster.....	Columbus
Mary Elizabeth Ransom.....	Columbus
Virginia Candice Taylor.....	Worthington
Margaret Ann Tracewell.....	Columbus
Theodora Grace Tucker.....	Columbus
Josephine Worthington.....	Columbus

(Nineteen candidates)

COLLEGE OF EDUCATION Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION—WITH HONORS

Goldie Frances Dworcken (with Distinction).....	Cleveland
Clara Grace Follick (with Distinction).....	Hamilton
Gordon Kenneth Harris (with Distinction).....	Middleport
Helen Ernestine Pavey (with Distinction).....	Columbus
Paul Valentine Reichelderfer (with Distinction).....	Laurelville

(Five candidates)

BACHELOR OF FINE ARTS—WITH HONORS

Virginia Agnes Stark (with Distinction).....	Columbus
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(One candidate)

BACHELOR OF SCIENCE IN EDUCATION

*Helen Frances Addison.....	Columbus
Charles Daniel Allen.....	Columbus
Mary Esther Allison.....	Columbus

* Two degrees.

Jerome Joseph Alt, B.A.	New Washington
Marcus Lovell Anderson, B.A.	Columbus
Anna Jane Apple	Columbus
Frederick Marquis Baltzell, B.A.	Columbus
Florence Elizabeth Barlow	Dayton
Suzanne Nanette Baumann	Columbus
Aaron Francis Baumgardner	Jenera
Martha Marie Bey	Beallsville
Mildred Mae Bilikam	Westerville
Leo Joseph Blaine	Cleveland
Abraham Blinick	Cleveland
Sam Xavier Blum	Columbus
*Mabel Louise Blume	Columbus
S. Robert Bobenmyer, A.B. in Com., A.M. (Ohio University)	Hamilton
Julia Josephine Boggs	Lexington
Dorothy Taylor Bowe	Cleveland
Paul Franklin Bowers	Millersport
Ross Wiley Boyd, B.A. (University of Cincinnati); M.A. (Miami University)	College Corner
Virginia Lee Breon	Columbus
*Erik Irving Bromberg	Columbus
Martha Emma Brown	Pomeroy
Velma Floye Calhoun	Bloomingsdale
Winifred Ethella Callaway	Marysville
Helen Margaret Cappel	Newcomerstown
Clyde Edward Carter	Richwood
Virginia Ruth Casteel	Napoleon
*Lily Hazel Chafin	Proctorville
Jane Ridgway Chamness	Narberth, Pa.
Angeline Sylvia Ciufio	Hubbard
Kenneth Edwin Clark	Columbus
Nettie Belle Clayton	Toledo
Mildred Inez Clem	Columbus
Robert Henry Colburn	Dayton
Frances Ada Cole	Ashley
Roberta Johnston Colliflower	North Lewisburg
Jean Elizabeth Cook	Grafton
Ellen May Cooper	Sebring
Mary Estelle Cooper	Columbus
Jessie Amelia Coriell	Portsmouth
Harry Garvin Craig	New Holland
Elizabeth Ann Crawford	Columbus
Dorothy Marie Crepps	Columbus
Samuel Coler Crouse	North Lima
Doris Daenitz	Defiance
George Andrew Daum	Portsmouth
Dorothy Jane Davidson	Columbus
Janet Heller Davies	Worthington
Clara Olive Davis	Columbus
Louise Kirk Dew	Columbus
Bernard William Dornbier, B.Sc. in Jour.	Columbus
Elizabeth Dougherty	Newcomerstown
Ruth Emma Dowler	Lancaster
Esther Louise Downs	Columbus
Ralph Stancliff Edwards, B.A.	Cleveland
*Irving Yole Eisen	Newark, N. J.
*Eloise English	Columbus
Dorothy Mae Ent	Columbus
Elsie Evans	Granville
Dan Lewis Farmer	Middleport
Leonard Edward Fauver	Uhrichsville
George Porter Felger	Van Wert
Joan Virginia Ford	Columbus

* Two degrees.

Virginia Denman Forward.....	Columbus
Priscilla Catherine Franz.....	Gallipolis
Robert Fraser	East Cleveland
Sara Frances Frebis.....	Georgetown
Anna Louise Frost.....	Johnstown
Janet Gates	Columbus
*Frances Lucille George.....	Zanesville
Margaret Emma Geske.....	Dayton
Wesley Dunham Ginn.....	Girard
Svend Theodore Gormsen.....	Rocky River
Earl Cranston Graham, A.B. (Simpson College).....	Columbus
Eugene Garfield Griffith.....	Bluffton
Lena Ann Gulmi.....	Cleveland
Elizabeth Boone Hamilton.....	Columbus
Edgar Marshall Hancock.....	Columbus
Carol Louise Hand.....	Cleveland
Bula Merle Hanson.....	Columbus
Olaf Hanson	Columbus
Kathryn Margaret Hardin	Beverly
Paul Harris	Evanston, Ill.
Mildred Frances Heap	Columbus
Kathryn Mae Helf.....	Columbus
Georgina Phay Hickerson	Columbus
Annabelle Hildebrand	Columbus
Hubert Roland Hinton.....	Marietta
Robert Louis Holloway	Findlay
John Louis Holmes	Lima
Helen Hurst Holscher.....	Columbus
Elizabeth Horlacher	Dayton
Rachel Lenore Hutchinson.....	Marysville
Victor Albert Hyde.....	Copley
Mary Elizabeth Jackson.....	Mt. Vernon
Ruth Marguerite Jackway.....	Huron
Hilda Ruth Jenkins.....	Massillon
Stella Ross Jenks.....	Columbus
Harvee Weber Jessen	Sandusky
Robert Edwin Jewett.....	Columbus
Doris Ann Jones.....	Alliance
Alice Kaiserman	Ashville
Jerome Max Katzman	Cleveland
Margaret Catherine Kilgore.....	Columbus
Clara Jane Killworth.....	Columbus
Rebecca Catlin Kindler	Lancaster
Helen B. King.....	Findlay
Ruth Eileen Kirsch.....	Parkersburg, W. Va.
Louise Koons	Columbus
Dorothea Rosalie Kraushaar	Columbus
Ida Margaret Kromer.....	Columbus
Lucille Loy Kuck.....	Columbus
Arline Joyce Landers.....	Utica
Frederick Richard Lang.....	Columbus
Mabelle Nell Lathrop.....	Sylvania
Janet Stewart Leeder.....	Columbus
Herman Overholt Leedy.....	Columbus
*Raymond Frank Lenart.....	Rock Creek
Dorothy Bertha Leupp.....	Columbus
Phyllis Helen Levinson.....	Columbus
*Ruth Leah Lichtenstein.....	Newark
Joseph Ignatz Lowenstein.....	Hoboken, N. J.
Joseph Francis Maley.....	Steubenville
Alice Evelyn Marker.....	Columbus
Mildred Stierwalt Marsh.....	Columbus

* Two degrees.

Kelvine Judson Masson.....	Lorain
John Nichols McAfee.....	Ironton
Jeanette Elizabeth McCleery.....	Lancaster
Donald Treese McClurg.....	Poland
Evelyn McCowan.....	Navarre..
*Dorothy Bell McFeely.....	Columbus
Mary Agnes McGurty.....	Columbus
Helen Mae McLean.....	Wellsville
Sarah Elizabeth McMahon.....	Bellevue
Mary Lenore McNish.....	Chardon
Carl Eugene Meeker.....	Kent
*Helena Agnes Miller.....	Rudolph
Wilma K. Miller.....	Springfield
Ellen Catherine Millisor.....	Columbus
Lucy Ellen Moore.....	Alliance
Doris Viola Morgan.....	Powell
Barbara Marie Morten.....	Columbus
Fred Clifton Neff.....	Columbus
William Nicolet, Jr.....	Cleveland
Joseph Charles Pagnotta.....	Weehawken, N. J.
Harold E. Pearce.....	Cleveland
Margaret Ann Perry.....	Columbus
Marjorie Alice Perrill.....	Columbus
Agnes Marie Petrella.....	Steubenville
John Noel Piersche, Jr.....	Columbus
Katherine Ruth Proctor.....	Columbus
DeEtte Elizabeth Radabaugh.....	Geneva
Kenneth Joseph Renaud.....	Ashtabula
Edna Mae Rich.....	Columbus
Ronald West Richards.....	Youngstown
Margaret Louise Ricketts.....	Dayton
Dorothy Lucille Richmond.....	Toronto
Radcliffe Franklin Robinson, B.A.....	Columbus
J. Robert Rooney.....	Circleville
Mary Celestia Ross, A.B. (Lake Erie College).....	Columbus
William Frederick Rosser, B.S. in Arch. (Massachusetts Institute of Technology).....	Arcanum
Evelyn Amaryllis Rupert.....	Vandergrift, Pa.
Fred LeArmond Rush, B.Sc. in Bus. Adm.....	Cleveland
Frances Wilson Ryan.....	Columbus
Ralph Randall Ryerson.....	Columbus
Mary Elizabeth Saenger.....	South Vienna
Joseph Ramos Sanchez, B.A., M.A.....	Columbus
Mary Elizabeth Schaeffer.....	Zanesville
Nelle Schelky.....	Columbus
Garnett Esther Scherr.....	Columbus
*Margaret Victoria Schulze.....	Columbus
James Hemsoth Scott.....	Toledo
John Hugh Seabrook.....	Columbus
Richard Benedict Sherman.....	Fremont
Mary Eleanor Sherwood.....	Columbus
Everett Krout Shipman.....	Mt. Gilead
Margaret Anna Shotts.....	Columbus
Betty Barbara Shumaker.....	Columbus
*Ellen Simpson.....	Akron
Marjory Gladys Slagle.....	Springfield
James Bingham Small.....	Charleston, W. Va.
Jeanne Kline Smith.....	Toledo
Lois Margaret Smith.....	Columbus
Wilma Virginia Starr.....	Youngstown
John Pfaumer Steele.....	West Union
Virginia Ruth Steinman.....	Cincinnati
Mildred Brooks Stewart, B.A. (University of Washington).....	Greeley, Colo.

* Two degrees.

George Alfred Stoll.....	Bellevue
Violet Jamison Stone.....	Delaware
*Walter Marshall Stout.....	Columbus
William Murray Stover.....	Dayton
Floyd Dana Strow.....	Custar
Galen Stutsman.....	Dayton
Jesse Roger Swisher.....	Columbus
*Rebecca Kathryn Tapp.....	West Mansfield
Norman Holcomb Taylor.....	Columbus
William Everal Tetrick.....	Waverly
Charles James Thomas.....	Columbus
Mary Ruth Tolbert.....	Circleville
Margaret Mecia Tucker.....	West Union
*Robert Erwin Tucker.....	Akron
Constance Rosemary Vercellotti.....	Elm Grove, W. Va.
Carl Eugene Vogelgesang.....	Lima
Helen Mae Vollmer.....	Columbus
Ernie Orsen Waldren.....	Ray
Atwell Milton Wallace.....	Huntsville
Clifford Loudin Ward.....	Columbus
Eleanor Mary Ward.....	Columbus
Esther Marian Ward.....	Columbus
Virginia Margaret Warden.....	Zanesville
Ruby Marguerite Watkins.....	Wadsworth
Margaret Lucille Watts.....	Columbus
Josephine Elizabeth Weaver.....	Columbus
Martha Louise Weiss.....	Columbus
Cora Marie Wells.....	Cambridge
Charles Blickle Wetherholt.....	Gallipolis
Cecile Ruth Wheeler.....	Columbus
Ruth Margaret White.....	Yellow Springs
*Marion Katherine Whitehead.....	Columbus
Harrison Wickel.....	Reading, Pa.
Donald Frederick Wiegel.....	Wellsville
Valda May Wilkerson.....	Middletown
Robert Arthur Willey, B.A. (Ohio Wesleyan University).....	Marion
Rosalind Loudin Willis.....	Columbus
Bert Leo Wilson.....	Columbus
Marjorie Louise Wilson.....	Columbus
Mary Rosalyn Wilson.....	New Holland
Miriam Wilson.....	Greenville
Mary Mildred Wise.....	Kent
Walter Charles Witten.....	Ohio City
John W. Wonsowicz.....	Columbus
Orville Claire Woodyard, B.A.....	Columbus
Lynn Marcellus Woofter.....	Cortland
Lucien Clay Wright.....	Columbus
Jeanette Wyeth.....	Johnstown
Ludwig Yards.....	Cleveland
Russell Lawrence Yarnall.....	Jerusalem
Samuel Yessenow.....	Lima
George Sausser Yingling, B.A.....	Columbus
Luther Oman Young, B.A.....	Groveport
*Anna Richards Zwerman.....	Kimball

(Two hundred and forty-three candidates)

BACHELOR OF FINE ARTS

Jennette Zoe Carlisle.....	Columbus
Edna Isabel Chapman.....	Waukegan, Ill.
Betty Chenoweth.....	Columbus
Leo Duncan Creed.....	Youngstown
Mary Dority Holcomb.....	Columbus

* Two degrees.

Curtis Guy Howard.....	Columbus
Elizabeth Frances Hume.....	Bay Village
Carl Wendell Inscho.....	Columbus
John Henry Jones.....	Youngstown
Robert Louis Kumler.....	Springfield
Florence Nevius Lane.....	Summit, N. J.
Marjorie Alice Maize.....	Columbus
Kenneth James McElroy.....	Springfield
Charles Allen McGurer.....	Worthington
William James Monroe, Jr.....	Columbus
Marion Virgil Packard.....	Columbus
Richard Cornelius Rector.....	Columbus
Rodney Winfield Scott.....	Wellston
Virginia Boring Tice.....	Columbus
Mary Winifred Winans.....	Columbus
*Harry Paul Wowra.....	Barberton
Herbert Frederick Yackle.....	Hamilton

(Twenty-two candidataes)

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

BACHELOR OF ARCHITECTURE

Carl Elsworth Bentz.....	Columbus
Will Eesley.....	Columbus
Robert Doerrerr Rush.....	Worthington
Wilbur Robert Scholz.....	Lorain

(Four candidates)

BACHELOR OF ARCHITECTURAL ENGINEERING

Charles Oliver Montgomery.....	Columbus
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(One candidate)

BACHELOR OF CERAMIC ENGINEERING

James Leo Child, Jr.....	Findlay
Charles Frederick Derrer, Jr.....	Columbus
Everett Corbett Hite.....	Pleasantville
Robert Warren Limes.....	Columbus
Herold Nash Reed.....	Willard
John Allen Slyh.....	Columbus
Warren Adam Zimmer.....	Columbus

(Seven candidates)

BACHELOR OF CHEMICAL ENGINEERING

Napoleon Anthemos Agapetos.....	Martins Ferry
Lawrence Alvin Bedford.....	Akron
George Schlegel Bonn.....	Norwood
Charles Brent Cochran.....	McConnelsville
William John Crehan.....	Elyria
William Kenneth Cusick.....	Martins Ferry
Harvey James Drake.....	Columbus
Robert Reinholdt Elsasser.....	Bucyrus
Hervey Clovis Gillogly.....	New Concord
Abram Gordon.....	Circleville
Richard Edwin Holmes.....	Kenton
Morgan Jones.....	Columbus
Warren Elmer Jones.....	Portsmouth

* Two degrees.

Delwin Kaufman	Cleveland
Harold Caspar Klassen	Columbus
Lee Edward Kleinmaier	Marion
Norbert Kenneth Koebel	Columbus
Richard Stoner McClurg	Poland
Kenneth Anderson McDaniel	Upper Sandusky
Norris Edwin McDougal	North Robinson
Raymond Ares Menendian	Columbus
Samuel Theodore Miller	Ashville
Albert Russell Morrison	Clarksburg
Ernest Clifton Painter	Zanesville
Lawrence Huber Seabright	Columbus
Frank Joseph Sereelj	Cleveland
Linton Earl Simerl	Chillicothe
James Francis Simpson	Columbus
William Eugene Swisher	Columbus
Frederick Llewellyn Thomas	Eau Claire, Wis.
James Francis Widman	Cleveland
Martin Irvin Zwelling	Zanesville

(Thirty-two candidates)

BACHELOR OF CIVIL ENGINEERING

Charles Howard Black	Dayton
John Everson Chubb	Pittsburgh, Pa.
Russel Straits Deetz	Orville
William Resnor Garner	Upper Sandusky
Robert Danials Haywood	Columbus
Walter Louis Heimbürger	Sandusky
Lloyd Otis Herd	East Liberty
John William Lambert	Columbus
Robert Irvin Lichtner	Columbus
Roger William Loveless	Mechanicsburg
Kenneth Robert Maxson	Massillon
Allan Leonard Meyer	Columbus
Milton Edward Miller	Columbus
James Wilbur Moore	Columbus
Harold Eugene Moss	Columbus
George Frederick Nigh	Conneaut
David Wilbur Reese	Columbus
George Robert Smith	Columbus

(Eighteen candidates)

CIVIL ENGINEER

Eugene William Davis (as of the Class of 1912)	Columbus
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(One candidate)

BACHELOR OF ELECTRICAL ENGINEERING

John Martin Apple	Columbus
Shirley Blair Cutlip	Canton
Edward Joseph Faehnle	Columbus
Clarence Merle Foraker	Zanesville
*Walter Raymond Gilsdorf	Columbus
Elmer Ernest Goehringer	Columbus
Cameron Redkey Hope	Bainbridge
Roland Evans Horton	Toledo
Paul Wallace James	Columbus
George Henry Link	Geneva
Howard Walter Mehrling	Columbus
Lester Joseph Sever	Delpbos
John Franklyn Silver	Newtown

* Two degrees.

*John Gilbert Tapp.....	West Mansfield
Luther John Weber.....	Columbus
Arthur John Wilde.....	New Burlington
(Sixteen candidates)	

BACHELOR OF ENGINEERING IN MINING

John Thomas Boyd.....	Elyria
Charles Henry Holmes.....	Kenton
Elwin Leland Krill.....	Defiance
(Three candidates)	

BACHELOR OF ENGINEERING PHYSICS

Raymond Meese Biehler.....	North Baltimore
Paul Franklin Darby.....	Columbus
John Trissler DeWitte.....	Columbus
Walter Vincent Hobbs.....	Columbus
Jack Carlton Smith.....	Akron
(Five candidates)	

BACHELOR OF INDUSTRIAL ENGINEERING

Harold Wilson Claugus.....	Woodsfield
*Robert Clark Cochran.....	Mt. Pleasant
*Jack Phillip CoVan.....	Columbus
Ralph Vail Darragh.....	Franklin
John Valentine Doersam.....	Chillicothe
Edward Pratt Gillett.....	Columbus
Paul Richmond Grady.....	Chillicothe
Charles Calvin Griffith.....	Steubenville
*Arden Roy Hacker.....	Sandusky
Paul Addison Hays.....	Washington C. H.
Frank Joseph Kahoun.....	Boston
*James Homer McFee.....	Lancaster
James Paul McGee.....	Lancaster
William Dennis Moore.....	Cleveland
Harold Frederick Ossing.....	Columbus
Herman Edward Priwer.....	Grove City
Echo Sipari.....	Cleveland
James Franklin Stoltz.....	Cincinnati
John Jay Timberlake.....	Lancaster
Warren Logan Turner.....	Lynchburg
Clifford Waldo Unser.....	Tiffin
Isaac Finley Wilson.....	Sugar Grove
(Twenty-two candidates)	

BACHELOR OF MECHANICAL ENGINEERING

Homer Edgar Allspach.....	Trenton
Wilbur Herman Bachman.....	Columbus
Fletcher Graham Bennett.....	Columbus
Robert George Bierbaum.....	St. Marys
Claude F. Bonham.....	Sunbury
Edgar Reed Brake.....	Milford Center
*Robert Clark Cochran.....	Mt. Pleasant
Harold Mohler Cooperrider.....	Columbus
Earl Robert Correll.....	Youngstown
*Jack Phillip CoVan.....	Columbus
Martin Lewis Crouch.....	Lockwood
John Ferguson Cunningham, Jr., A.B. (Dartmouth College).....	Columbus
Harold Herman Dawson.....	Columbus
Gordon Everett DeHond.....	Rochester, N. Y.

* Two degrees.

Jan Rubidge Dunsford, Jr.	Sewickley, Pa.
Alfred Frederick Grill	Cleveland
Hugh R. Grim	Leesburg
*Arden Roy Hacker	Sandusky
Hervey Hoffman Inskeep, Jr.	Columbus
Elmer Emanuel Johnson	Youngstown
Richard Floyd Kymer	Hazelhurst, Pa.
Frederick Hirt Lane	Westerville
James Allen Lucas	Chillicothe
Walter Lawrence Luli	Ravenna
Willard Andrew Luli	Ravenna
Franklin Parr Marquis	Columbus
*James Homer McFee	Lancaster
Kenneth Raymond Mercy	Irvington, N. J.
Richard Dagobert Moore	Columbus
John Lewis Nagely	New Philadelphia
Norman Reed Ohler	Toledo
Everett Prugh Overturf	London
Frank Calvin Owlett	Auburn, N. Y.
Benjamin Eugene Perry	Columbus
Richard William Pickens	Frankfort
Edwin Clifford Pinsenschaum	Columbus
John James Preotle	Madison
John Lavelly Purdy	Columbus
Lyman Franklin Reuwee	Sunbury
Brandon Garner Rightmire, B.A., M.A.	Columbus
John Hoadley Shapter	Erie, Pa.
Charles Evan Sharpe	Springfield
*John Gilbert Tapp	West Mansfield
Benjamin Wayne Watson	Columbus
Charles Reider Wood	Gallipolis
(Forty-five candidates)	

BACHELOR OF METALLURGICAL ENGINEERING

Albert John Franz	Pomeroy
Charles Henry Stamm, Jr.	Mansfield
(Two candidates)	

BACHELOR OF SCIENCE
IN APPLIED OPTICS

John Gilbert Axline	Zanesville
Royal Smith Clisby, B.S. (The College of Wooster)	Akron
Durward Jefferson Dennison, B.A. (Salem College)	Columbus
Leopold Leonard Gage	Cleveland
Maxwell Wayne Jacobs	Youngstown
William John Kettler	Washington, D. C.
Robert David Kiess	Montpelier
Herbert Guy Mote, B.Sc. in Bus. Adm. (University of Akron)	Arcanum
Eli Ross	Brooklyn, N. Y.
Samuel Al Schlansky	Columbus
Frederic Daniel Scull	Cincinnati
Jack John Sheridan	Ironton
Albert Joseph Tighe	Martins Ferry
Sanford Tuckerman	Columbus
Robert Edwin Welsh	Springfield
Thomas Guthrie Westfall, A.B. (DePauw University)	Hartford City, Ind.
Richard Rutherford Wilson	Zanesville
(Seventeen candidates)	

* Two degrees.

COLLEGE OF PHARMACY

Dean: CLAIR A. DYE

BACHELOR OF SCIENCE
IN PHARMACY

Donald Hartford Birnie.....	Utica
Herman Lewis Bless.....	Zanesville
John Donald Bloom, B.S. (Mount Union College).....	Youngstown
John Neal Carnes.....	Gallipolis
Paul Stanley Denn.....	Columbus
Clark Isaac Ford.....	Mt. Perry
Hyman Howard Goldberg.....	Cleveland
Albert Bill Griger.....	Cleveland
John George Kaiser, B.A. (Ohio Wesleyan University).....	Norwalk
Weldon Frederick Kimble.....	Canadaigua, N. Y.
Joseph William Maksl.....	Hartford, Conn.
Glenn Harry Markins.....	Columbus
Madge Markins.....	Columbus
Iala Jeanne Mellsop.....	Columbus
Louis Charles Nicklaus.....	Columbus
Dora Althea Olds.....	Conneaut
Leo Ary Polster.....	Columbus
Ben Rabinowitz.....	Cleveland
Manuel E. Retske.....	Dayton
Stanley Ray Risch.....	Logan
Rubin Robert Ronder.....	Cleveland
Joseph Richard Sabino.....	Girard
Mario R. Serafini.....	Yorkville
Walter Schriver Stewart.....	Columbus
Robert Emerson Wagner.....	Columbus
Ora Fenton Wells.....	Columbus
Edna Elma Willert.....	Grove City
John Kimber Williams.....	Columbus
Don Waters Young.....	Columbus

(Twenty-nine candidates)

COLLEGE OF MEDICINE

Dean: JOHN H. J. UPHAM

CERTIFICATE OF GRADUATE NURSE

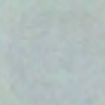
*Lily Hazel Chafin.....	Proctorville
Dilys Sara Evans.....	Flushing
*Frances Lucille George.....	Zanesville
Josephine Louise Jeffers.....	Newark
*Rebecca Kathryn Tapp.....	West Mansfield

(Five candidates)

* Two diplomas.

The Public Service of the Ohio State University

The Journal of Teaching and
Research in the Faculty of Ohio



Report of the Board of Trustees
to the Governor

For the Year Ending June 30, 1911

